Земля – большой кристалл?

ЗАХАРОВ

Земля–? большой кристалл.

По материалам исследований Н.Ф.Гончарова, В.А.Макарова, В.С.Морозова

Preface to the manuscript

The earth - a big crystal?

The present manuscript deals with the analysis of an extremely interesting, important and highly relevant problem of the "Earthlings" for us: with the influence of the energy field connected with the crystal structure of the core of our planet on all processes in its environment. The five informative main chapters deal with the history of the origin of basic hypotheses, the facts of the existence of an energy framework on the Earth's surface and its manifestations, the idea of the geocrystal as such, which reproduces similar structures in the solar system, and the effects of this crystal structure on the Earth's surface, described in detail on man and society.

The whole presentation is based on several hypotheses. The results are obtained by comparing, analyzing and researching a variety of objective data on history, biology, archaeology, written sources from different eras and some results of modern natural sciences. In this sense, the study is empirical in nature, but the author's numerous conclusions are very convincing. The author works imprecisely with facts and truthfully formulates consequences. Despite its undoubted attractiveness and catchiness - although it is obvious that this approach is the result of years of painstaking work - this approach is not reliable in terms of formal logical results alone.

The ideas developed by N. F. Goncharov, V. A. Makarov and V. S. Morozov are skillfully presented to the reader and treated in an appealing way. It seems that any curious mind will be fascinated by the content of the book and will get real pleasure from reading it.

The work is controversial, but the subject of the study is so interesting that it seems to me very desirable to publish the book. I believe that it could facilitate the scientific solution of the questions posed in the book and the de- velopment of our ideas about the world around us, and thus deserves to attract the attention of a wide range of readers. I wish K. A. Lachurin much success with it!

A. S. Sigov,
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The earth - a big crystal?

Based on the research materials of
N. F. Goncharov,
V. A. Makarov, V. S. Morozov

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Dedicated
Valery Alekseevich Makarov

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This book is devoted to the analysis of an extremely interesting and important problem for us Earthlings: the influence of the energy field associated with the crystal structure of the core of our plan on all processes in its environment; it considers similar structures in the solar system and describes in detail the influence of this crystal structure on man and society.

The book is based on the works of N. F. Goncharov, V. A. Makarov and V. S. Morozov and will contribute to the development of our ideas about the world around us.

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Foreword

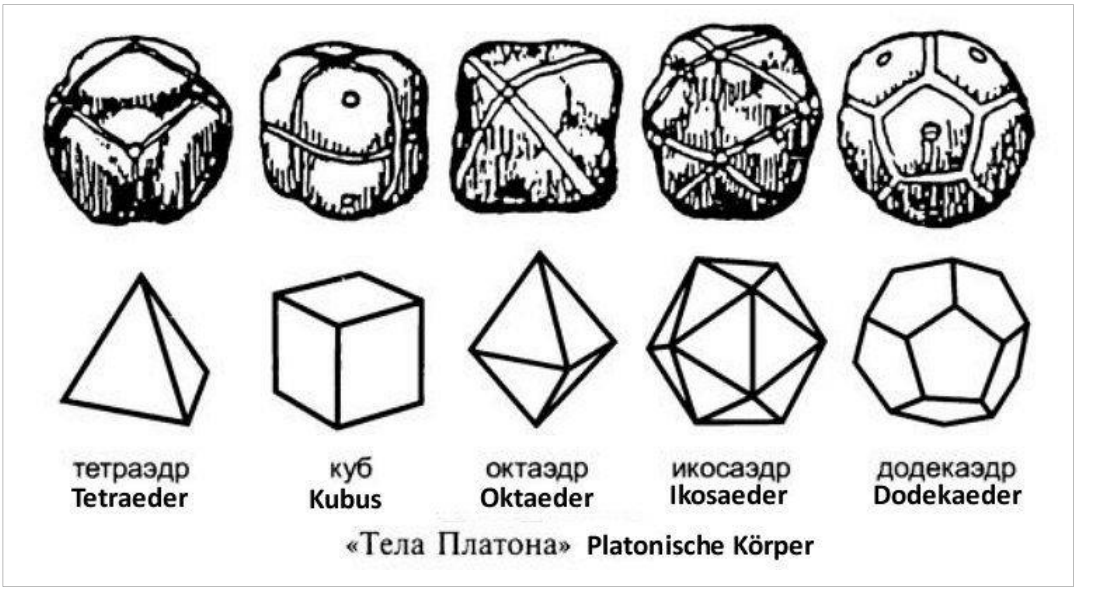
> ... Before our astonished eyes unfolds a picture of the magnificent edifice of the world, some parts of which are connected by close relationships. The great philosophers of antiquity dreamed of them.
>
> *A.L. Chizhevsky.*
> *"Earthly Echo from the Solar Storms."*

When the number of phenomena that seem random at first glance becomes too great, it's time to keep a close eye on researchers. And often it turns out that science is on the way to important discoveries.

Recently, there has been a rapid development of geosciences worldwide. Many hypotheses are being put forward, and real scientific battles are being fought over some of them. It may seem strange that few geologists and geophysicists are satisfied with the oh-so-familiar spherical shape of the Earth: Many need an angular model of the planet, like a crystal, to understand the laws that have shaped the face of the Earth and surround the Earth with various polyhedra.

There are only five regularly convex polyhedra, which are also called "Platonic bodies": Tetrahedron, Cube, Octahedron, Icosahedron and Dodecahedron. The perfection of their form, the beauty of their structure capture, envelop, inspire. In the great order of the world, in the harmonic structure of the universe, connections with the right forms of poly- eders have long been sought (and sometimes found). Thus Pythagoras and his followers gave the dodecahedron to the Earth.

However, these "bodies" were already known at least 1000 years before Plato: Thousands of models of these five stone ...



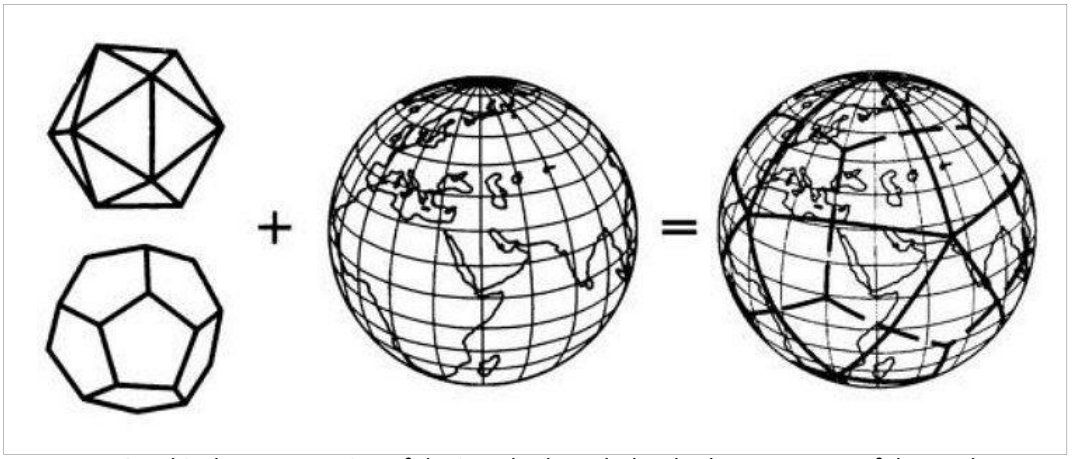
«Тела Платона» **Platonische Körper**

... or fired clay cut polyhedra were used, for example, on
found in various places in Great Britain - from northern Scotland to the Salisbury Valley in southern England, including the nearby Stonehenge area. These finds are over 3,500 years old.

In modern times, some geologists, noticing the symmetry elements of the Earth's surface formations, also compared our planet to a regular polyhedron, under the aspect that this symmetry is inherent only in the Earth's crust. Different "grids", "frames" and "cells" were found on the whole surface of the Earth, even in sections.

In our time, the crystal-like Earth model developed in the early 1970s by three Russian researchers Nikolai Fedorovich Goncharov, Valery Alekseevich Makarov and Vacheslav Semenovich Morosov is the most advanced and scientifically sound model. It proves that the Earth is not a random collection of objects and phenomena, but that in its corpus there is something like a crystalline power grid of unknown nature. It is impossible to see it or touch it with our hands, but it manifests itself like electricity or magnetism in the space around us.

In short, the essence of this theory is as follows: The structure of the Earth's force fields is formed by the combination of the icosahedron and the pentagonal dodecahedron inscribed in the globe and projected on its surface.



Graphical representation of the icosahedron-dodecahedron structure of the Earth.

The two vertices of the icosahedron are aligned to the geographic poles of the Earth and the vertices of the dodecahedron are aligned to the centers of the icosahedral faces. The reason for this geometry is the crystalline iron core of the Earth - the geocrystal, which has gradually evolved from simpler forms. The nodes and edges of these polyhedra manifest themselves in various ways in the lithosphere, hydrosphere, athmosphere and biosphere, and it is precisely through this energy framework and the hierarchy of its subsystems that most of the phenomena and anomalies on our planet are determined. Abbreviated, this framework is called **IDSE - Ikosaedro-Dodecahedral Structure of the Earth** (in the original Russian: IDSZ alias ИДСЗ - икосаэдро-допекаэдрическая структура Земли; translator's note).

Symmetry is a widespread phenomenon in nature. In recent time it has been shown that also the space is structured accordingly. Moreover, also in the structure of a human being there is a direct connection to the energy framework of the earth (and even of the universe)! The academic science is often accused that it seems to look through a microscope at the picture of an artist. Therefore, it may be time to combine the data from different sciences to finally see the full beauty of the universe that is revealed to our perception. It should be noted that ancient civilizations did this much more successfully ...

The origin and development of the IDSE theory are accompanied by a whole series of mysterious coincidences and fateful events and I consider it one of the greatest miracles in my life to have met one of the authors of this theory, Valery Alekseevich Makarov, preceded here also by the chance acquaintance with his son Denis. At that time I already knew something about IDSE and I was very interested in this topic, but I could not imagine that fate would lead me to one of its founders.

Valery Alekseevich, a man with encyclopedic knowledge and incredible efficiency in work as well as great kindness, told me many new and in- teresting things and answered many of my questions. After each meeting with him, I felt as if I had just passed my final exam at the university! Unfortunately, Valery Alekseevich died in May 2003 on the way to God - from understanding the laws of the material world to higher order phenomena.

He had long dreamed of publishing a book and had collected information for it, but had not found time to put it into practice. Probably he could never consider his studies so complete that he summarized them. He continued to work until his last days, realizing more and more how many new horizons were opening up for him at the same time.

...

Thus, the basis for this book was laid by Valery Alekseevich, but it was left to me to systematize his collections of materials after his death, to record the current state of research on this subject and to "anemp- lack" the work of the trio of researchers to a wider audience, since they had previously been published only fragmentarily and often dissected in various professional organs. But even this procedure had already aroused much reader interest in our country and abroad.

The reader can familiarize himself below with the source texts of the articles contained in this book and participate in the discussion on my website www.lachugin.ru.

Cyril Lachugin, May 2005

Chapter 1 History of Discovery

For centuries the surface of the Earth has been compared to tetrahedra, cubes, octahedra, icosahedra and dodecahedra, usually based on the observed geometrism of the same. The first to undertake this work were obviously Pythagoras, Plato, and Archimedes, dealing less with the Earth itself than with the general structure of the entire universe. In his day, Pythagoras identified the universe with the cosmos, applying the ancient non-Greek definition of the cosmos to the universe as "order, supreme measure, beautiful principle." Mathematical models embodying the same concepts, which came from the so-called Pythagoreans, were later called correct polyhedra, "Platonic solids" by Kepler. Plato described the dodecahedron in the outline of the universe and the planet Earth. In his work
"Phaidon" he put into Socrates' mouth:

> *"If you look at the earth from above, it looks like a sphere made of twelve pieces of leather, brightly painted with different colors. The colors used by our painters can serve as samples of these colors, but there the whole earth plays with the same colors and is still much brighter and cleaner."* (Plato, Phaidon, 110 st. 1A; translator's note)

(Incidentally, the first astronauts gave their impressions of the brightness and beauty of the Earth they saw from space in almost the same words).

Plato could easily borrow his knowledge from the Pythagoreans, since they already believed that the universe derived from the dodecahedron. The Pythagoreans found it necessary to keep much of their knowledge secret. However, one of them, Hippias, revealed one of the secrets, the first design, by drawing a sphere with twelve equal pentagons.

Over the past three centuries, researchers have generally restarted this work:

Already in 1665 the German scholar A. Kircher about the patterns in the relief of the Earth. The hypotheses connected with the same orientation of some mountain ranges were independently put forward at the beginning of the 19th century by the German naturalist A. Humboldt and the geologist L. Buch. According to them, the mountain systems of the globe are mainly limited to latitudinal or meridian directions and there are a number of critical parallels and meridians.

- In the 19th century, the English and French scientists L. Green, R. Owen, S. Lalleman, A. Lapparen, and M. Levi noticed the symmetry elements of the tetrahedron on Earth, and the academic Élie de Beaumont noticed the symmetry of the dodecaedro icosahedron.
- In 1929 the ideas of Élie de Beaumont were supplemented and further developed by the researcher S. I. Kislitsyn.
- The Soviet professors B. L. Lichkov and I. I. Shafranovsky in 1958 compared the shape of the Earth with a combination of two equally developed regular tetrahedra, the later geologist V. I. Vasiljev with a dodecahedron, and Wolfson with a cube.
- In 1973, the American researcher A. T. Sanderson completed his comparisons of the "catastrophic" regions of the planet with the coordinate grid of the Earth by constructing the Earth icosahedron. For more on this work, see Appendix 1.

The authors of the IDSE, Goncharov - Makarov - Morozov, at first knew nothing about the work of their predecessors, indeed primarily did not connect their researches with the earth sciences at all. Thus, they did not run the risk of adopting someone else's point of view to explain the observed laws of nature. However, as it later turned out, some of the crystal models of the predecessors fit IDSE partially or completely, which could only please the trio of authors.

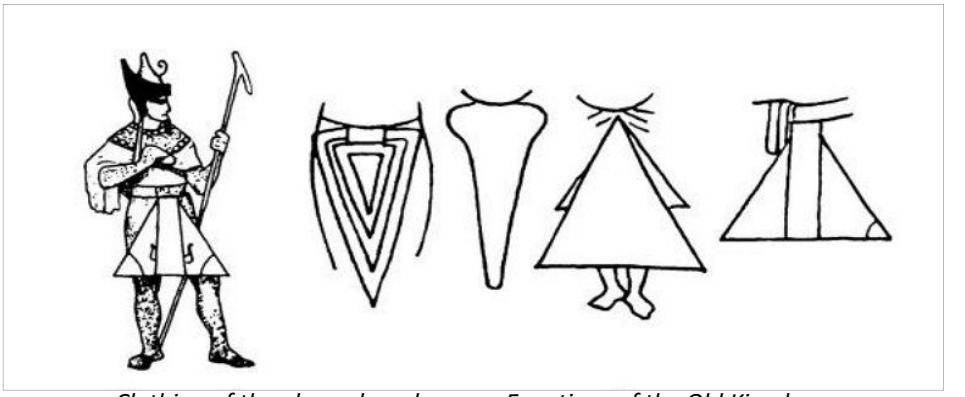
It all began when the Russian artist and teacher of the Open University of the Arts Nikolayi Fedorovich Goncharov, who had previously spent many years studying the history of the art of ancient peoples, cursorily studied some aspects of the connection between the origin and development of ancient cultures and civilizations, as well as their possible starting points for contact with extraterrestrial civilizations.

In the second half of the 1960s, his greatest attention was drawn to the inexplicably high enthusiasm of the ancients for triangular and diamond-shaped symbolism. The images of triangles were widespread in all spheres of human culture since the Neolithic period - in art, pottery, clothing, jewelry and architecture.

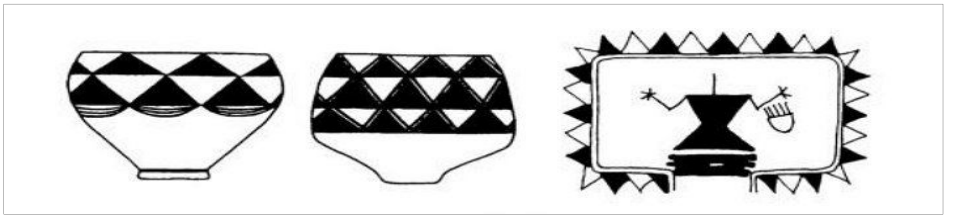
In more recent times, the leaders of some North American tribes wore an equilateral triangle with a dot in the center as a symbol of power. Single or whole belts of equilateral triangles are present in the images of sacred animals. On the now-abandoned island of Marajot at the mouth of the Amazon, strange triangular tiles abound.

The pharaohs of ancient Egypt (3rd millennium BC) had aprons in the shape of equilateral triangles tied to the belt and covering the hips. The same triangle aprons were in dresses and other layers of ancient Egyptian society. Some triangles point with the tips up, others down. Perhaps this was some sort of meaningful ritual. In Europe, the oldest garments resembled two triangles sewn in the shape of a diamond with a hole in the middle.

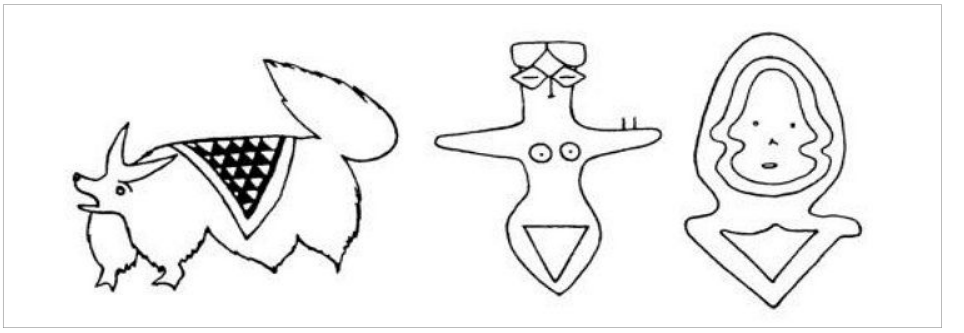
There are the famous Dogu statuettes in ancient Japan (2nd-3rd millennium BC), which some researchers believe represent ancient cosmonauts. A statuette in spacesuit-like clothing (2nd millennium BC) was found not far from Mohenjo-Daro, it also has large equilateral triangles on its chest.



Clothing of the pharaoh and aprons Egyptians of the Old Kingdom.



Painted pottery (4th-6th millennium BC)



God in the form of a yak (Kashmir) and deities of Turkmenistan and Siberia.

The characters of the legends of North American Indians.

The triangle symbol in ancient architecture is widely used. In ancient Greece, a triangle was cut above the entrance to the treasury of Atreus in Mycenae. The same sign is visible above the ancient Lion's Gate. The symbolism of the triangle was on the walls of fortresses, shrines and temples.

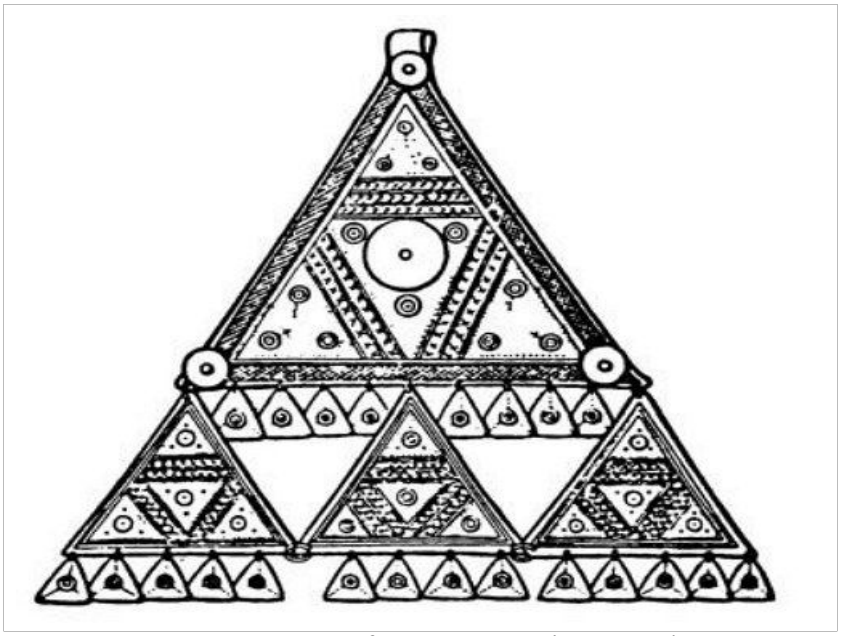
The archaeologist A.K. Ambrose, who knows well the ancient symbolism, argues that an equilateral triangle (or a rhombus) has long been known as a "symbol of the earth, of the firmament", "it was a sign of power",[1] with which man is distinguished from birds and animals. Plato attributes to the triangle the meaning of the primary element of the universe.

In Russian folklore, going beyond one's own territory means "to retreat to distant lands" (if each side of the triangle is divided into three equal parts and the points obtained by straight lines are connected parallel to the sides, 9 new triangular "lands" equal to each other are obtained). For Russian fairy tales, the following beginning is typical: "In the distant kingdom ... for three or nine countries ..." - which is perhaps a profound echo of ideas about dividing land into parts. The ancient Chinese songs confirm this:

> *"Son Yu is heir, successor of the family. The high water ... as he stopped it and divided the whole country into nine regions."*

On the plate with the sacred treasure of the Koban culture, which is kept in the exhibition of the Historical Museum in Moscow, there is the same image. The same image can be seen in a large triangle of the tower of the old fortress of Izborsk near Pskov, which was built in a kind of girdle of ten equilateral triangles (although it was later slightly corrected to include an additional cross, but its significance is irrelevant).

1 *An interesting proposal was made by A. Lisakovich in a letter to the Russian Newspaper (24.10.1995), namely to replace the pentagonal asterisks in the symbolism of the Russian army with triangles, which have been a symbol of power since ancient times, as well as representing the light of the triune God in Christianity. However, there is a small objection: the army itself is not a power, but only an instrument of political power. But in principle, this idea deserves attention.*



Breast ornament of Tuareg women (silver plate)

The women of the North African Tuareg tribes still wear large silver plates on their chests: the triangles are subdivided into 9 smaller triangles, some of which are in turn grouped into groups of 4.

Messages about triangles and their division into 9 or 4 are preserved in Indian mythology and in the ancient Indian sage Sanjay, in the general history of Polybius, in the geography of Strabon, in Plato.

It is difficult to imagine that the triangular territories of the ancients are the result of a random combination of certain circumstances and not the logical result of the functioning of some system common to the planet. But on what were the ideas of the ancients based?

In 1968 Nikolai Fedorovich Goncharov could answer this question. Another interesting peculiarity attracted his attention: The Hungarian linguist Heveshi found up to a hundred characters in the hieroglyphs of Easter Island and Mohenjo-Daro.

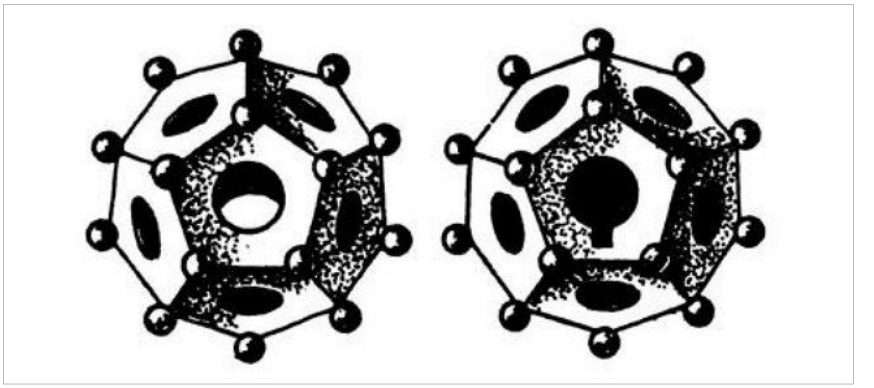
Mohenjo-Daro, the world-famous center of the proto-Indian culture in the valley of the Indus, and Easter Island with its mysterious ancient culture are the an- tipodal points of the globe, that is, they are located, so to speak, at the ends of an axis running through the center of the earth and separated from the poles at a distance of 20000 km.

The focal points of the most famous ancient cultures and civilizations (known to researchers at that time) on a globe turned out to be systematically arranged on a planetary grid of twenty equilateral triangles of the same size. The distance of the node where the edges of five adjacent triangles converge to the nearest adjacent node is 7000 km. In total, twelve nodes could be determined, two of which are located at the geographic poles and five in each of the northern and southern hemispheres at equal distances from the poles. The positions of the centers of gravity of the ancient cultures and civilizations are thus located on the nodes of this grid, in the middle of the edges and in the centers of the triangles. One of the centers of the edges of the first triangle became the reference point of the recognized system: this is the great pyramid from the Giza complex, a suburb of Cairo, in the past the sacred region of ancient Egypt.

At the end of 1970 N. F. Goncharov formed a creative team: engineers Valery Alekseevich Makarov and Vyacheslav Semenovich Morozov were from now on involved in active research work. Together they found many evidences that the system of herd of ancient cultures and civilizations was formed by the effect of a similar physical substrate on the biosphere, after which many other physical phenomena were formed on the planet. Thus, in 1971, they were able to formulate their first circumstantial hypothesis. The components of the jointly written article "Triangles of the Earth" were partially published in the January and February issues in 1972 in the Mashino-Stroitel newspapers of the Kom- pressor plant in Moscow. These were the first printed publications on this hypothesis.

Of great importance to researchers was information about archaeological finds in Europe and Asia, "foreign objects" in the form of a dodeca- eder of unknown use: in 1968, the newspaper "Knowledge is Power" reported the discovery of thirty such objects made of gold in Vietnam and one made of bronze in France.[2]

2 Translator's note: In the meantime, several hundred of these objects were found in the former northwestern provinces of the Roman Empire (formerly Celtic-populated areas).



"A strange thing"

About this bronze object K. Ceram writes in the book "Gods, tombs and scholars": "Inside it is hollow. Both this specimen and all similar ones were discovered in the Northern Alps and the circumstances of the discovery indicate that it is of Roman origin ..." About one of them, found during excavations in Monte Lofa near Padua (Italy), K. Levitin writes that it was, according to indirect evidence, "the favorite toy of Etruscan children 2500 years ago."

In the centers of the 12 faces of these "strange objects" there are circular holes (for some reason with different diameters) and in the 20 corners there are spherical convexities (knobs). The polyhedron, whose projection N.F. Goncharov discovered on the surface of the planet Earth, which is why he called this geometrical pattern "Triangles of the Earth", consisted, on the contrary, of 20 interfaces and 12 vertices, i.e. it formed an icosahedron. However, the combination of the centers of the faces of one of these polyhedra leads to the other polyhedron and vice versa. In the "surface relief of the object" spherical cones stand in the dodecahedral vertices and in the center of its faces "sink" the icosahedron vertices. From this constellation the assumption of an "alien subject" as an energy model of the Earth with different properties at the corners and centers of the partial surfaces was borne.

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de, which are therefore called "Roman dodecahedra". Their purpose is still unclear. Cf. "Roman dodecahedron" in Wikipedia.

If you transfer the "black holes" in the facade of this model to the surface of the planet, you can associate the disappearance or sinking of ships and airplanes (for example in the area of the Ber- muda Triangle and the Devil's Sea).

There are also other similarities between the resulting grid and the symbolism of the ancients: In the system there are the 12 vertices of the icosahedron and 50 nodes - the centers of the triangles and the center of each side, totaling 62 nodes. In ancient symbolism, there are often images of 12 gods in ancient Babylon - for example, 12 major gods plus 50 gods of ancient Iran. The citadel of ancient Troy consisted of 62 houses and the king of Troy, Priam, had 12 sons and 50 daughters. In the sun temple of Baalbek there were 62 sacrificial horses found during the burial of the queen of the ancient city of Ur. The Etruscans of 12 cities united under the authority of one king; in ancient Russia there were 12 (out of dozens), etc. It cannot be excluded that some so-called sacred numbers are in some way related to the ideas about the triangle system.

On February 17, 1973, the Presidium of the Academy of Sciences of the USSR was sent a complete but not yet elaborated version of the following article: "The Triangular-Pentagonal System of Foci of Physical Phenomena of the Earth and Foci of Ancient Cultures and Civilizations, a Hypothesis", with marginal notes. The haste with which the raw material was sent was explained by the fear of the consequences of the American atomic bomb, which exploded in the summer almost in the middle of the triangle of the Aleutian system on the island of Amchitka (it can be assumed that the American military did not choose the grid frame of the Earth and the place for these tests by chance).

The response from the Academy of Sciences was unfavorable to the authors; no comprehensive review of the complex research occurred

Therefore, the authors decided to make the research results available at that time accessible to a wide public: Numerous scientific reports were delivered in scientific societies, scientific target groups of institutes were informed at seminars and conferences, articles were published in various scientific organs both in the USSR and in Ukraine and abroad.

The opinions and scientific discussions of the opposite side were very useful for the authors, they got an idea of the positive and negative aspects of their arguments, many advices and also concrete proposals. The popularity of the hypothesis grew, the number of supporters increased, some of them became propagandists of the ideas, also practitioners were interested in the hypothesis, e.g. from the oil-processing industry and fisheries.

Goncharov-Makarov-Morozov eventually became members of the Geographical Society of the USSR. The newspaper "Komsomolskaya Pravda" published on December 31, 1973 an article by correspondent N. Bodnaruk entitled "What are you - Earth?". The first author's article on IDSE (in the general press) appeared in 1974 in issue 3 of the journal "Chemistry and Life", although, according to the authors, it appeared in a very abbreviated version. In the first works of foreign researchers on this subject the system discovered by Goncharov-Makarov-Morozov was called "Russian lattice".

A great benefit for the authors of IDSE resulted from some scientific reviews of their work during this difficult learning period - by the professors of the Tomsk Polytechnic Institute, Dr. geol.-min. A. G. Bakirov, Dr. geol.-min. M. Favorskoy, corresponding member of the Academy of Sciences of the USSR, cand. geol.-min. V. V. Fedynskiy, also. Secr. of MOVAGO, cand. geol.-min. V. B. Neyman and others.

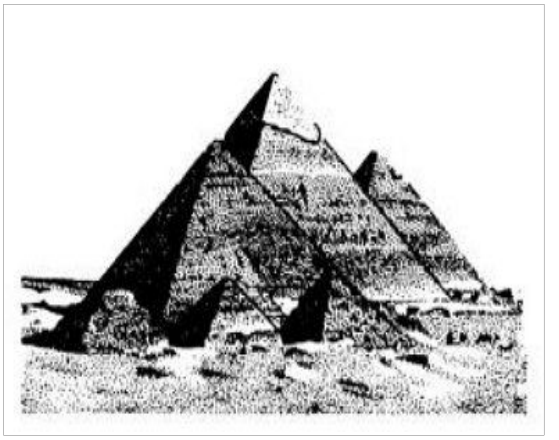
A significant contribution to the development of the hypothesis satisfactorily explaining why all types of energy on Earth are concentrated along the skeleton and at its nodes and edges, i.e., where extremes of most geological, geophysical, and geographic phenomena occur, was provided by the notion of the Earth's inner core, its crystalline "heart." In February 1976, at a joint meeting of the Moscow Branch of the Astronomical and Geodetic Society (MOVAGO) and the Geomorphological Commission (MFGO) of the USSR, Goncharov-Makarov-Morozov presented the scientific report "Mechanism of Motion Patterns of the Planet," in which the authors' idea was first given a modern acronym - IDSE, i.e., the Icosahedral-Dodecahedral Structure of the Earth.

After that, there was so much material that until 1983 only highly specialized reports on the mathematics of IDSE and review articles were published in newspapers and magazines (for example, the famous article "In the Rays of the Earth Crystal" in "Technology and Youth," No. 1, 1981).

When in 1990 N. F. Goncharov died, the research activity decreased at first, but was soon continued by V. A. Makarov in practical applications and in theory, which had already become a generally accepted scientific fact. He dealt with it until the end of his life May 2003. In particular, laws were now found in the structure of the world space, in the relationship of man to the energy structure of the Earth. Some drawings of these studies are published here for the first time.

Chapter 2
Energy lines on the surface of the earth

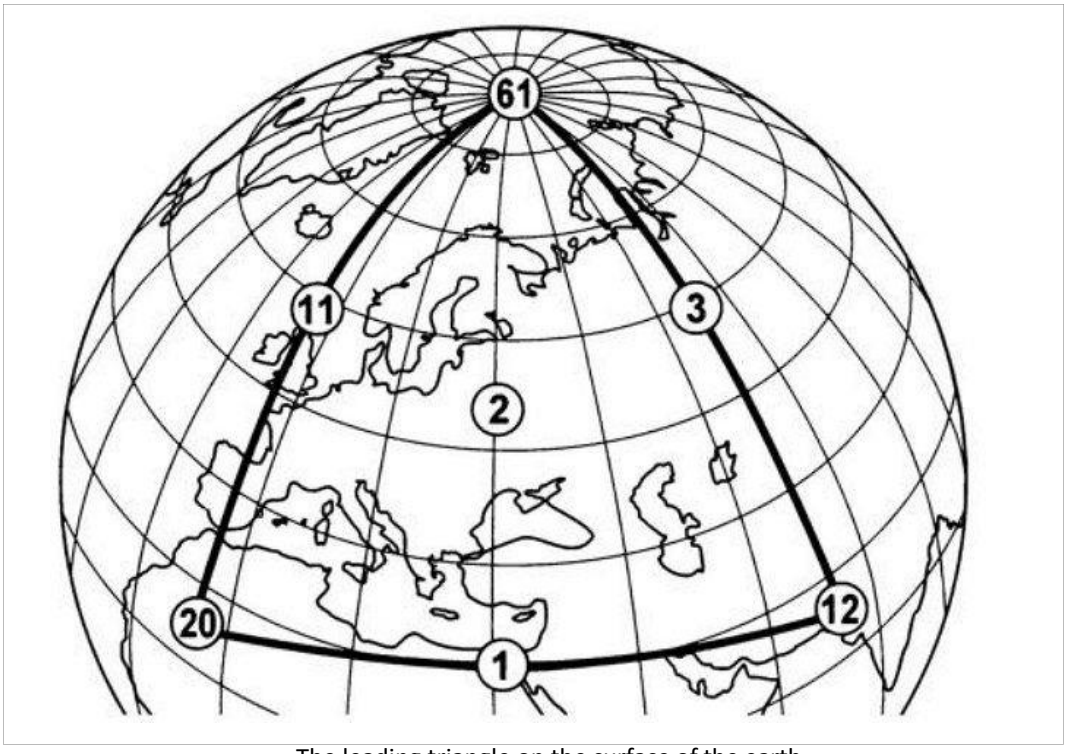
The system reference point



The identification of the energy framework on the Earth's surface began with an analysis of the location of the centers of ancient cultures and civilizations. The starting point of the system was the great Egyptian pyramid of Khufu (Cheops), the main building of the entire pyramid complex in Giza. Its huge triangular sides were eye-catching. At the time of the construction of this pyramid, at this place was the ancient Capital of Egypt, Memphis, which translates as "the center of the world".

As it turned out, the geometric center of the polyhedron surfaces of all continents is located at this point (the land surfaces in the north and south of the pyramid are similarly equal to those in the west and east).

The image of the pyramid on an ancient Egyptian fresco.



The leading triangle on the surface of the earth.

If we project the distance from ancient Egypt to the proto-Indian civilization of Mohenjo-Daro to the west of Giza, we arrive at the center of the Berbero-Tuareg culture of North Africa with its ancient sacred rock art galleries. By connecting the globe of Mohenjo-Daro with the Berber-Tuareg culture and these two centers with the North Pole, we obtain a huge equilateral triangle, slightly spherically curved, with a side length of 7000 km. In the center of the base of this triangle is the complex of the Egyptian pyramids.

The true story of its construction is still full of mystery, but many researchers believe that the ancients wanted to mark with this sign an extremely important point on Earth, where the highest knowledge was placed in the pyramids. At the base of the center of the north wall of the Cheops pyramid lies hidden a triangular door. Is its location not a symbolism? Is it not a symbolic representation of the pyramid itself - in the center of the base of a huge triangle on the surface of the earth?

According to the French researcher Dufet, the Egyptian word "pyrami- de" means a "tenth" or "dozens of numbers". On this basis, he argues that the Egyptians immortalized various sizes in the pyramids on a scale ten times smaller. The height of the Cheops pyramid, measured at the summit (147.8 m), corresponds to the distance from the earth to the sun, reduced a billion times to 1%. This is far more accurate than the measurements of Hipparchus and Ptolemy, but also of Copernicus and other astronomers until the 19th century, as they considered this distance to be many times smaller than the actual one.

No less remarkable is the "sacred cubit" - a unit of length used for the construction of the pyramid, with an accuracy of 635.66 mm, which corresponds to 1/10000000 of the radius of the Earth (from the center to the pole), to the last decimal place. The length of the side of the Pyramid of Khufu at its base (232, 16 m), expressed in pyramidal "cubits" is 365.23. The same number is found in the days of the astronomical year, 365,242. The length of the circumference of this pyramid, divided by twice its height, is 3.1415, that is, the circle number Pi, which expresses the ratio of the circumference of a circle to its diameter.

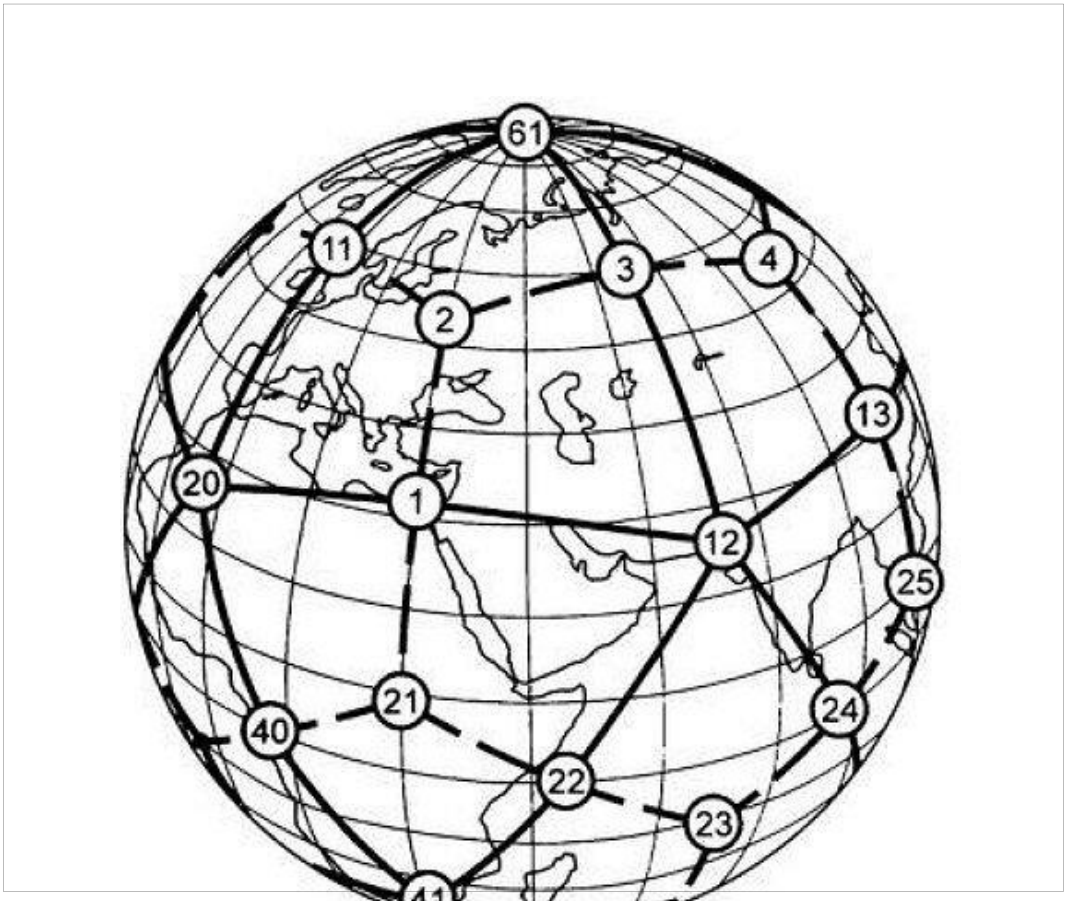
The mass of the Cheops pyramid is exactly 10^{15} times smaller than the mass of the Earth. Similarly, the masses of the pyramids of Khafra and Menkaura symbolize the masses of Venus and Mars. It is interesting to note the date of the foundation of the Pyramid of Khufu, which, according to prevailing opinion, was between 2500 and 2700
v. Chr. was built. It turned out that the terminally closed shaft in the northern wall of the pyramid "fixed" the point of the sky, where in 2592 BC there was a polar star of that time - Alpha Dragon. Thus, the pyramid itself can "talk about its age".[3] Note that the number 2592 is one tenth of the zodiacal cycle of 25920 years.

Many books have been written on the subject of the Egyptian pyramids, and our account does not include a complete survey, but one thing is clear: the Pyramid of Khufu is a unique monument of the ancient world. The coordinates of its position (30° N, 31° 9' E) make it possible to pinpoint all the other nodes of the system (see Appendix 2).

3 *However, according to some astronomical data, the construction of the pyramids was started around 2474 BC. According to other analyses (e.g. according to the configuration of the stars in the Orion belt) and according to the extent of water erosion, the pyramid dates back to the 11th millennium BC.*

Further Structure

Leaving aside the side of the preserved equilateral triangle east of Mohenjo-Daro, we see that exactly five such triangles fit around the North Pole. The same number of triangles, calculated from Easter Island, form a "cap" around the South Pole. If we combine the vertices of the north with the vertices of the south triangles, we get another ten equatorial triangles, twenty in all. The triangle mesh is closed! The result is a regular two-sided icosahedron, as inscribed in the globe; its edges are projected onto the surface of this sphere. The triangles are connected at 12 points by nodes.



The connection of the centers of the triangles results in 12 regular pentagons; they form the figure of a pentagon dodecahedron.[4] In this way, a double icosahedron-dodecahedron system becomes evident, whose nodes are the vertices and intersections of the edges of both polyhedra (62 nodes in total). The functions of the icosahedron and the dodecahedron in the structure of the Earth are different, they are discussed below.

In each of the 20 triangles obtained there are 7 important points: 3 corner points, 3 side centers and a center. In most of these points there are focal points of ancient civilizations. We list some of them:

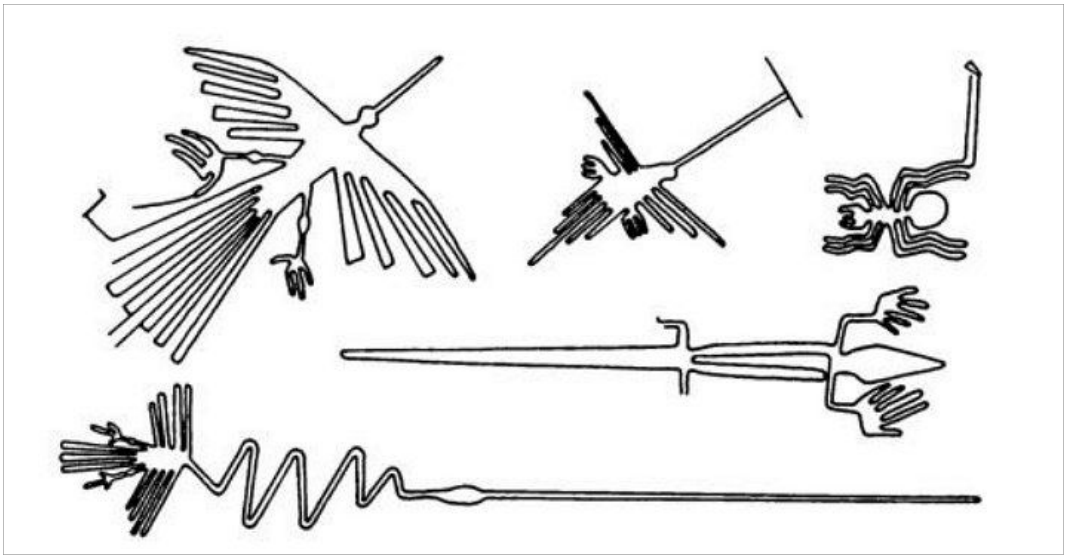
Centers of triangles: Kiev, Northern Mongolia - Southern Siberia, Aleutian Islands, Sudan, South Vietnam-Thailand-Cambodia, Arnhem Land in Australia, Tahiti in Polynesia, Peru.

The *Northern Mongolia* (4 - Thus we will denote with numbers the components of the system; their representation can be found in the insertion) is known as the exodus place of the Mongolian people, the area of origin of Turkic languages, the center of Genghis Khan's empire, the area of origin of the Hun movement, the oldest center of culture in Central Asia.

Traces of cultures that may be the oldest on Earth have been found in the *Vietnam-Thailand* region (25). The analysis showed that one of the found canons dates back before 4000 BC and the lower layers of the archaeological excavations date back to about 10 000 BC. The whole complex of finds proves that the first inhabitants of Vietnam not only knew copper, but were also engaged in garden culture for 2000 years - long before the land in the Middle East between the Indus and Euphrates rivers began to be cultivated, in that area which is still considered the cradle of all civilizations. Interestingly, triangles are depicted on the crockery found here.

4 *An icosahedron and a dodecahedron are two regular polyhedra, that is, they have the same number of edges, but the number of faces of one is equal to the number of vertices of the other and vice versa. Another such pair would be a cube and an octahedron.*

Ancient Peru (35) is known as the center of an ancient, distinctive, high and in many ways mysterious culture. Many disputes among scientists concern, for example, the so-called "Inca roads". Aerial photographs have shown that they are a system of huge, properly formed geometric figures, visible only from a great height, with lines of astonishing accuracy, difficult even for modern surveying instruments to achieve. Beneath the surface of the water, in the Peruvian port of Callao (exactly in the center of a triangle), the ruins of an ancient city with hieroglyphic columns were found, dating back millennia before Christ. Near the coast are the ruins of another ancient settlement. It is believed that there was another advanced civilization here for a thousand years before the Incas.



Some of the gigantic images in the Nazca Desert (in Peru).

Triangular peaks: Easter Island, north of the Bahamas, south of Japan, north of the Hawaiian Islands, north of New Zealand, Drakensberg Mountains in South Africa, Mohenjo-Daro.

One of the local names of *Easter Island* (47) is "eyes look to the sky". Its enigmas are the found hieroglyphic writing and a large number of gigantic stone statues, the so-called "long ears", which once stood there.

By the way, giant statues of gods with long ears were also found in India (as well as in China and Cambodia). It seems that all these sculptures corresponded to a common biological prototype.

"Although all the statues were placed roughly on the same axis - northwest-southeast - each had its own specific special position," writes Francis Mazier.

"It seemed to us that the gaze of each giant was directed to a certain geographical position" or "pointed to a star..." This is how a map of the starry sky was created.

North of the *Bahamas* (18), traces of an ancient civilization that apparently existed four to five thousand B.C. have been discovered. Near the Bimini Islands and at Andros, more than a dozen stone houses have been were found, one of which looks like a huge pyramid, as well as a huge dam, with hundreds of round, wheel-like stones with a diameter of 60 cm to 1.5 m and a hole in the middle, plus many fragments of processed marble, parts of marble sculptures and ancient ceramic pictures with human faces.

The ancient Indian civilization of *Mohenjo-Daro* and *Harappa* (12) existed from the middle of the third to the first half of the second millennium BC. It impresses by the high organization of the cities and at the same time by the almost complete lack of military infrastructure. When, on the hill of Mohenjo-Daro, "millennial sediments were removed, under which lay the 'City of the Dead,' huge straight avenues opened up, running from east to west and crossing roads strictly at right angles, which in turn ran from north to south. The general outline of the city did not allow the least doubt that it was built according to a precise and unwaveringly executed plan. The avenues and streets were lined with magnificent buildings of baked bricks, the oldest in the history of mankind ...

On the first or second floor of each house there was a bathroom, the drain of which led to the municipal sewage system." (Vojtech Zamarovsky,
"The Mysteries of the Hittites").

The centers of the sites: The northwest of Mexico (the coast of the Gulf of California), Araucania - ancient Chile, Gabon, the ancient district of Chengdu in China, Alaska. And, of course, Egypt.

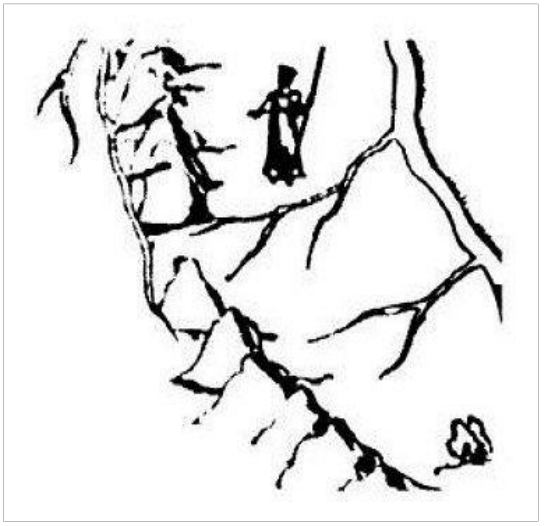
Egypt was already mentioned at the beginning of this chapter. Let us therefore take a closer look at the *Chengdu* region (13). In the Chinese province, according to the historian Badanin in his book "Ancient Civilizations and Prophets", Austrian travelers in the early 1990s found a lot of gigantic structures overgrown with grass and trees, similar to the Mexican and Guatemalan pyramids. But they were not built of stone, but of clay and earth, and are now in very poor condition. Most of these pyramids have a height of 25 to 100 meters, in the center of the complex is the great White Pyramid with a height of almost 300 meters. According to the chronicles of a nearby Buddhist monastery, the pyramids were built in the time of the ancient emperors, whose ancestors came to earth with the "noisy iron snakes" and are the places of their burial. The age of some pyramids is more than 5000 years. Purebred descendants of these ancient aliens in China are considered to be small-bodied "Dzopa"; they now live in China's Sichuan province. By order of the Chinese government, this area has since been declared closed to unauthorized visits.

Let us now take a closer look at the first "European" triangle of the system. Similar to the pyramids in Giza were located in the middle of the other two sides of the triangle:

Northern Ireland-Scotland (11), the ancient cultural center of the Celts and Iberians. It follows what I. Zheleznev and I. Lebedev wrote about her in the book "Erin Emerald":

"Ireland is an ancient country, one of the oldest in Europe. Already for Plutarch it was 'the oldest' ... In times without Troy, Athens and Rome there was already a center of a flourishing civilization here, and crafts and arts were developed ... There are monuments in Ireland older than the Egyptian pyramiden."

The *lower Ob* ("Tyumen" - node 3) - center of culture of Velikoy Ob, as academician Okladnikov called it. The culture in Siberia is clearly an important cultural center. On the Lower Ob there was a great religious center: here was worshipped the great goddess Yumala - the "Golden Woman", a



Statue made of pure gold. This statue was even found on maps of the 17th - …
18th century still depicted, which obviously reflects the great religious significance of this place. It is very interesting that from a re-gion near the apex of the triangle - Persia and neighboring countries - to the Lower Ob for centuries the "flow" of ritual silver objects flowed as in a continuous stream. How would the connection be built up on the side of the triangle between its two neighboring points? From this node gin-
many nations and ethnic groups such as Finns, Hungarians and Sámi. The latter received the legend of their ancestors moving on "iron birds" to the new habitat.

In the center of this triangle is *Kiev* (2) - the center of Slavic society, the "mother of Russian cities", the center of Kie- wer Rus. Here are also located the centers of agrarian and pastoral culture of Tri- polis, one of the oldest in Europe (3rd millennium BC), and Zarubinetsky. In Tripolis (50 km from Kiev) archaeologists found bird figurines with the symbolic image of an equilateral triangle on the back. (The same
"Birdman" as on Easter Island and the "winged serpent" Quetzalcoatl in ancient Mexico).

It is interesting that "Ptah" in Slavic language is a bird, a sym- bol of a flying principle. Egypt is translated as "house of the god Pta". The Old Slavic "Perun" and Old Indian "Varuna" is an expression of the same idea, the principle of flight.

Even in materials far from completely found, it can be seen that many ancient human cultures and civilizations arose and existed in the areas of the nodes of the triangular grid, though not all ... The exceptions were either less remarkable cultures or were located in the "high" belt of humanity, between 30th and 40th parallel of the north. At the same time, these and others were often of lesser importance in the height of development when located in grid nodes (at the same latitude).

And the ancients, as it turned out, did not divide equilateral triangles by 9 and then by 4 equal triangles, not accidentally, but "in great consequence". Because in accordance with the resulting grids of triangles of the following orders cultures and civilizations proved to be less significant in their hierarchy at the nodes of the subsystems.

Each of the subsystems is a network of equilateral triangles and the transition of one subsystem to another is associated with the appearance of three or seven new nodes. Perhaps it is not a coincidence that in the ancient legends and traditions the birth of tribes and nations is usually associated with three or seven first clusters? The main triangular grid of the earth's surface consists of 20 triangular "Dwellings." The first two subdivisions of the main triangle are generally known. This is a continuous subdivision of the side of the main triangle into 3 and then into 2 parts. As a result, first 9 new triangles are formed and then 36. However, the further division procedure is not quite clear: either again in the same order (through 3, then through 2) or alternating (first through 2, then through 3). In the first case 324 new triangles are formed (if first divided by 3), in the second case 144(if first divided by 2).

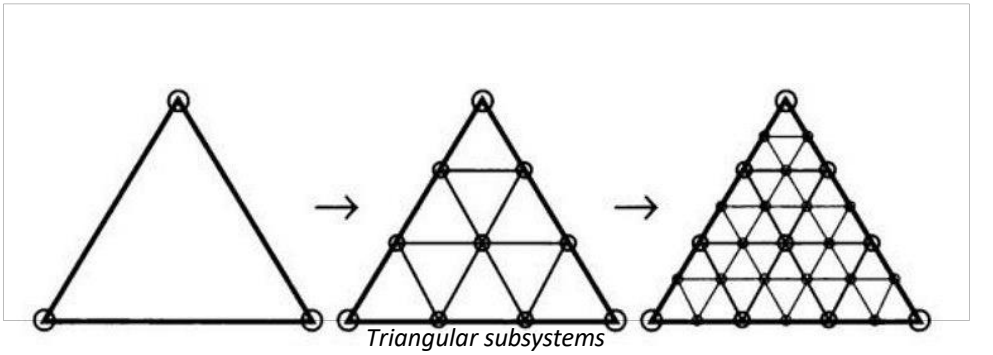
Turn to the Gospel of John, ch. 21 (Jesus' appearance to the seven disciples at the Sea of Tiberias).

"But he said to them: Throw the net on the right side of the boat and you will catch. They cast, and could not pull out the net from the multitude of fish." "Simon Peter went and pulled out a net filled with large fish, of which there were one hundred and fifty-three; and with such a multitude the net did not break."

Replace the left and right sides of the boat with rows of subdivisions on the side of the triangle, counting even and odd. The right side would correspond to odd subdivisions: the first and the third. Then it corresponds to the sum of the triangles 9 and 144 to obtain the amount indicated in the Gospel: "one hundred and three and fifty".

Thus, the order of the divisors of the side of the triangle in the main sys- tem for determining the values (and number) of the triangles of each of the following subsystems is: 3, 2, then 2, 3, again 3, 2 and 2, 3, etc. Accordingly, the bi- bel contains much important information about the Earth's energy framework, which will be discussed in detail in Chapter 5.

The energy frame can be tested with the methods of biophysical ef- fect (its echo), which have been used to search for water, ores, etc. from ancient times until today. In Germany and Austria, the dowsing rods that have found strong fields crossing motorways have revealed the increased frequency of car accidents in these areas. Crossing the energy legs with great speed affects the ability of drivers to drive a car. Now a special traffic sign has even been introduced there.



Triangular subsystems

The following ancient centers of cultures and civilizations were found in the nodes of the subsystems of the following two orders:

- *in Asia:* Ur, Persepolis (center of the ancient Persian state), Lhasa (the sacred center of Tibet), the center of the Hittite state.
- *in Europe:* the center of ancient Greece, Bulgar the Great (on Kama), Ustyug the Great, Cordoba (the capital of the Cordoba Caliphate), the island of Rügen (the central sanctuary of the Western Slavs "Arkona"), Dagestan, the Jutland Peninsula (Danes, Jutes, Britons), Uppsala (the sacred center of ancient Sweden), Bavaria (Celts), Spain (Basques), etc.
- *in Africa:* Tassili (the sacred center of the Berbers and Tuareg), the ancient state of Aksum (on the territory of Ethiopia)
- *in America:* the Yucatan Peninsula, Mexico City, Veracruz, the Nazca Desert, Lake Titicaca.

It is interesting to note that the main lines of communication in the an- tike coincided with nodes and lines of subsystems. According to the authors of historical geography, the road connecting Kiev with Western Europe went through Krakow, Prague, Regensburg. This direction corresponds to the main line of the first subsystem. The same coincidence with the main routes is observed along the route Kiev - Old Ustyug. In this direction Slavic culture spread from Kiev to the northeast.

Large invasions of the Huns took place mainly along the edges of the system from the center of one triangle to the center of the other: from Mongolia (4) to Kiev (2) and further along the edges to Western Europe. The Mongols went the same way, but were stopped by Slavic tribes and did not reach Western Europe.

"Outbreaks" of Britons, Anglo-Saxons, Teutons came from the "Dag" center of the triangle of the first subsystem, and the Italian-Etruscan-Roman campaigns were from the "Ariagic" center of the triangle of the first subsystem (analogy to the "Danish").

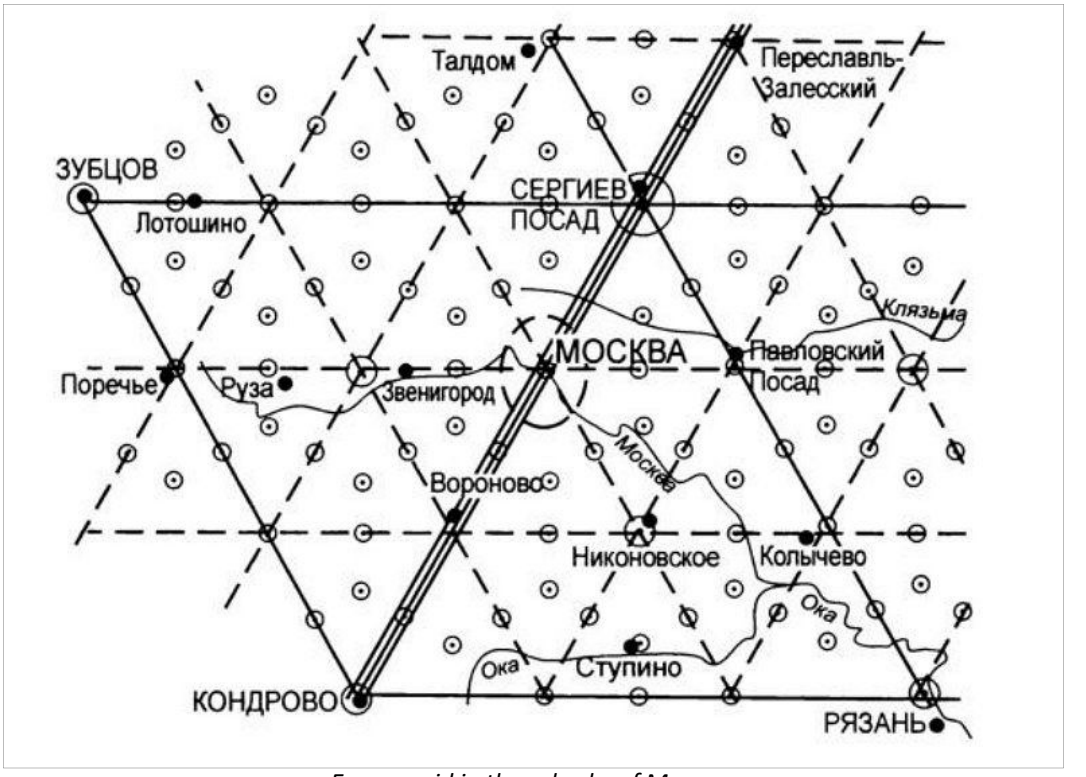
In subsystems coming to the Adriatic, Yugoslavia, or the Balkans, the following should be noted:

The famous Dubrovnik is the oldest cultural center of the southwestern Slavs; Milan is in the middle of the subsystem, its old name is Mediolan (from the middle of the median); Sofia is the capital of Bulgaria and is also in the middle of the subsystem, its old name is Seredets - the middle; plus Great Tirnov (Bulgaria), Rome, Florence.

At the end of the 19th century, the author Élisée Reclus wrote in the eighth volume of the encyclopedia "Earth and Man": "Analyzing the description of the Earth compiled by the Indian sage Sanjay, inter- pretators concluded that he represents India as an equilateral triangle, divided into four equal-sized smaller triangles". That is, Sanjay knew even without an aerial view that the Indian peninsula is a triangle and really fits exactly into the triangle of the first sub-system.

The "history" was somewhat different with the outlines of Italy. In the Ti-maios dialogue Plato wrote that every flat surface consists of triangles, and the ancient historian Polybius claimed in the second book of the General History that the whole of Italy is the semblance of a triangle. In Strabon's "Geography," however, this statement is already disputed: "It is difficult to imagine the whole of modern Italy as a simple geometrical figure, although it is a triangular promontory." It turns out that the Greeks had inherited from someone else, so to speak, the idea that certain areas should have a triangular shape, but apparently the reasons for these ideas were forgotten, and Strabon then criticized them as not corresponding to reality.

Interesting is the work on "triangulation" of the territory of Moscow and Tula regions, where both energy potentials are identified within the framework of a single subsystem and compared in different subsystems.



Energy grid in the suburbs of Moscow

The largest part of the Moscow region is occupied by two triangles of the 4th subsystem with a side length of 195 km. Their peaks are located near the town of Zubtsov in the Tver region south of Sergiev Posad, near Kondrov in the Kaluga region north of Ryazan. Their centers are located 13 km west of Zvenia and near the village Nikonovskoye in Ra- mensky district.

The region near Sergiev Posad is energetically remarkable and, moreover, has a landscape ring structure with a diameter of 60 km. And in a system of the 5th order the distance between the centers of the triangles is 60 versts, that is, it corresponds to the old Russian measure of length "konke". It is in perfect agreement with this fact and the "step" of the 5th order system (1/108 of the edge of the main triangle).

On a straight line there are the ancient Russian cities of Moscow, Sergiev Posad (formerly Zagorsk, even earlier "Trinity" and before that there was the sanctuary of the White Gods), Pereslavl-Salesski (where the "blue

Stone" was located, the place where the tribes of Merya and Vesi bowed), Rostov Veliky (there was the sanctuary of Beles), Yaroslavl (a settlement associated with the Slavic deity Diem). This direct line coincided with the edge of the first subsystem.

Around the Zvenigorod node of the Moscow riverbed, Ruza and Ozerny form a semicircular curve with a diameter of 60 km, depicting a ring-shaped geological structure. Savvino-Storozhevsky monastery west of Zvenigorod (not far from the center) houses ancient settlement sites. Everyone knows the wonderful nature of these places, where the complex nature reserve is located. Here lived and worked artists I. Levitan, K. Korovin, A. Savrasov, composer S. Taneev, wrote A. Tche- chov. It is interesting that in the area of the Sergiyevposadsky node - in the Abramtsevo estate - worked I. Gogol, I. Turgenev, I. Repin, V. Serov, V. Vasnetsov, K. Stanislavs- ky and others. The conditions in the nodes could benefit from creative activities.

The node in the middle of the second triangle is also located at the intersection of three districts near the village of Nikonovskoye in the Ramensk region. Around this node, the Severka River makes a 5 km long curve with a circle diameter of 5 km and the large ring structure is weakly developed.

The east of the Moscow region lies on the territory of another fourth-order triangle, the center of which is near the village of Misheron in the Shatura district. The extreme north of the region covers parts of other triangles. We divide the edges of these triangles into three equal parts and obtain nine triangles of the 5th subsystem in each of them (the dotted line in the diagram). Their peaks (3 - 4 km in diameter) are located in the old center of Moscow, south of Voronov, in Podolsky district, south of Pavlovsky Possad, north of Taldom, south of Pushina, near Vyshgorod, in Naro-Fo- minsky district northeast of Senezh Lake and other areas. The centers of these triangles are located southeast of Podolsk, east of Spas, Volo-Kolamsky area, near Stupin, south of Orudev in Dmitrovsky area, etc.

Readers themselves can divide the edges of the dotted triangles (5th order) into two parts and, connecting the dots, get four triangles in each triangle already 6th order. More precisely, the district Dedenev Dmitrov - the place of victory of Russian troops over Khan Dedenem, etc.

This hierarchy of subsystems is obviously subject to the effects of Earth's energy to varying degrees. We still know very little about their influence, but even in modern times mankind continues to use IDSE nodes, albeit unconsciously (?). In the USA the cosmodromes are located in California and Florida, in the former USSR - near Dzhezkazgan and Plesetsk. All of them are located in the nodes of the corresponding subsystems and use the notches in the magnetic field of the planet.

Can such a precise geometry of places, of cultures and civilizations, of cities and places of pagan worship that precede Christianity, appear on the surface of the planet? Is this a consequence of some kind of global unification process of our entire planet? If yes, then in the different spheres of nature, in the different phenomena of the life of the developing planet, there should be traces of the effect of this process. And there are such traces!

We come to Geophysics

The triangular place lattice of the centers of gravity of ancient civilizations is one of the manifestations of the icosahedral energy framework on the Earth's surface. However, the double icosahedral polyhedron, the dodecahedron, is also important in the system. Studies have shown that many global geographic, geologic, geophysical, and biological structures and processes of our planet successfully correlate with the identified icosahedral-dodecahedral model.

Geological aspects

Satellite images of the icosahedron are observed in the form of annular surface formations with a diameter of about 300 km (20 Morocco, 18 Barami); the intersections of the edges of polyhedra are observed as icosahedron nodes (17 California) or dodecahedron nodes (26 Macassar- Strait). Semicircular outlines of seacoasts (Gulf of Thailand, Gulf of Carpentaria, etc.), sea arcs (Baikal, etc.), and rivers (White Nile, Limpopo, etc.) are also identified. Not all edges and nodes are active and give manifestations. Sometimes nodes fluctuate slowly and their manifestations at different epochs are scattered around the calculated center, they are blurred or obscured by other phenomena. On satellite images it can be seen that some nodes behave like a blinking light: The ring structure is clearly visible, and suddenly it is no longer visible in a later image at the same location.

The ribs and edges of both polyhedra also manifest themselves in the structure of the Earth. Thus, the Russian, Siberian, African-Arabian plates and three separate parts of Antarctica correspond geographically to icosahedral surfaces, with geosynclinal regions separating the respective plates (moving belts of the Earth's crust) extending along the edges between them. From the tectonic structure of the Antarctic plate, it can be seen that the eastern part of the continent consists of three adjacent triangles. These
"Triangles" lie within the boundaries of the IDSE triangles (with sides 41° W, 30°, 103°, and 175° E). The height of the middle tectonic triangle runs exactly along the height of the system triangle. The isolines of these three plates, like the lines of magnetic anomalies, repeat in an amazing way the outlines of the triangles of the system.

Many mid-ocean ridges and large zones of crustal disturbance coincide with or appear to be close to the system's ridges.

These are, for example, most of the Mid-Atlantic Ridge, the belt of oceanic ridges around Antarctica, the Owen fault zone in the Indian Ocean, the Lomonosov Ridge in the Arctic Ocean, Anchorage- Pradho Bay in Alaska, and many others. The Red Sea and Gulf of California ridges are confined to the margins of the second subsystem. Some of the oceanic ridges coincide with the edges of the triangles, for example in the area of Easter Island and the Peruvian Basin.

The Mid-Atlantic Ridge runs mostly along the edges of the dodecahedron or with minor deviations from it, only towards the far north. The ridge-belt around Antarctica corresponds to the wave-belt of the channels of the dodecahedron: their wavelengths are almost equal, the wave crests of the ridge-belts correspond to the crests of the curvatures of the edges of the dodecahedron.

The areas in the Indian Ocean do not correspond as strictly to the system (they have probably shifted north), but the outlines of the system are still visible:

1.) Both ridges and edges of the dodecahedron located in the south have a similar Y-shaped bifurcation.

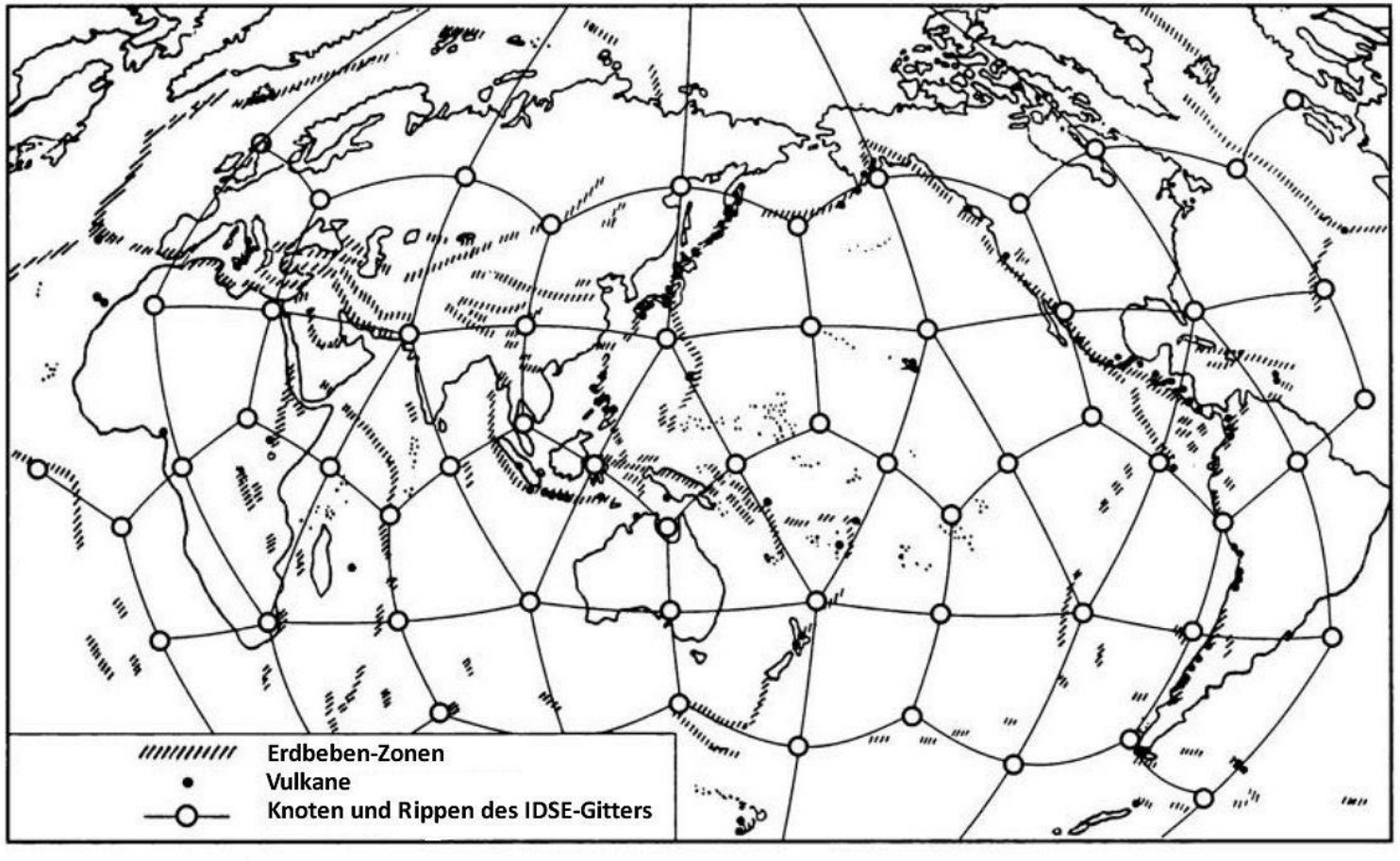
2.) The meridional part of the ridge runs along the meridional part of the rib, their lengths coinciding.

3.) The length of the ridge from the fork to the Gulf of Oman is approximately equal to the length of the edge 52 - 23 of the dodecahedron.

4.) The uplift of the Seychelles, which has the meridional and the northwestern part, repeats the bending of the edges of the dodecahedron and the same bending of the ridge, which is northeast under the same azimuth.

5.) South of the bifurcation in the western and eastern branches of the ridges are traces of major shear deformation from south to north, and the ridge sections are displaced hundreds of kilometers to the north.

Earth's *seismic and volcanic activity is* mainly related to the edges and nodes of the system. It turns out that part of the Earth near the surface consists of huge pentagonal plates. At the junctions of the edges of these plates, that is, where the Earth's crust is apparently thinnest, their faults occur most frequently.



Vereinigte Karte der seismische Bändern der Erde und des Energie-Gerüsts der Erde

Deep rock formations fill the cracks in the crust. Thus, it is possible that the pressure of the Earth's mantle is converted into the horizontal movement of huge pentagonal blocks of the Earth's crust. This is the conclusion of the proponents of "neo-mobilisms" in tectonics. The geologist V. P. G. Avril, analyzing the space of ten sea and air traffic endangering ge- bers of the planet (all at the corners of the icosahedron), writes in his book "The Phenomenal Structures of the Earth" that all of them are "tectonic nodes". "Here the internal tensions are relieved most intensively, the subsoil communicates most actively with the external environment." And here "in the magnetic and gravimetric fields there are anomalies."

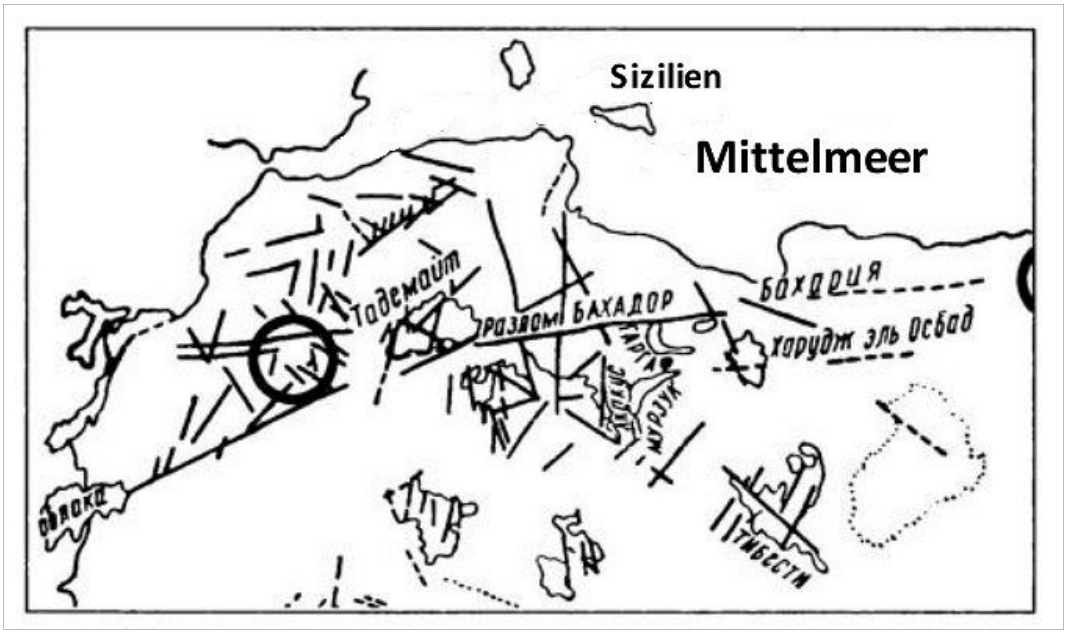
The largest deposits of minerals are confined to the nodes and edges of the system; often some minerals are concentrated at the edges and surface of the dodecahedron (iron, nickel, copper) and others at the edges and surface of the icosahedron (oil, uranium, diamonds). This is, for example, the oil-bearing province of the North Sea (11), the Tyumen region (3), North Africa and Arabia (rib 20 - 01 - 12), California, the north of the Bay of Mexico (edge 17 - 18), Alaska (7), Gabon - Nigeria (40), Venezuela and others. Uranium is found in Gabon (40), California (17), in South Africa uranium and diamonds
(41). An ore pile is located in Sierra de Pasco in Peru (35), small iron-manganese nodules are located along the Mediterranean ridges, the rudimentary edge of the system with the Kursk magnetic anomaly, the sub-meridional ore zone Erdenet in Mongolia, at the edge of the system coincident with the Baikal - Okhotsk ore belt, etc. Analogously, we can assume the existence of an oil province in the shelf and on the shores of the Sea of Okhotsk.

In 1972, traces of a natural nuclear reactor that was in operation 1.7 billion years ago were discovered in the uranium deposit at Oklo (Gabon, 40). Due to the special geological conditions, the concentration of the ^{235} U isotope in the rocks reached a level sufficient to trigger the fission reaction, and six such "reactor" zones were found.

The role of the moderator was played by the groundwater. Uranium "burned" almost on the surface of the earth, although the reaction proceeded at low power: The reactor worked for hundreds of thousands of years in a slow-boiling regime. Did such a reactor really exist? What consequences did it have for the geological history of the Earth and its biosphere? These questions interest many researchers.

The subsystems of the Earth's energy plant also function; each edge of the icosahedron is divided into 9 triangles (1st order) and each of them, in turn, into 4 triangles (and further, as mentioned above, according to the principle of dividing the sides of the triangle 3: 2: 2: 3). The subsystems correspond to a hierarchy of smaller structures, objects and phenomena. From the geological point of view, the subsystem grid for Kamchatka is the most meaningful, since the calculated data of the power framework at the level of edges and nodes of the 2nd, 3rd and 4th subsystems fully correspond to the available geological data for this region. Thus, the edge of the 2nd subsystem corresponds to the main Kamchatka fault. The longitudinal edges of the 3rd and 4th subsystems correspond to the four cross-sectional cortical fault zones identified by satellite imagery. The northwestern edges of the 3rd and 4th subsystems correspond to four regional zones of tectonic faults. The latitudinal intersections with the northwestern zones of the ore deposit correspond to the nodes of the subsystems. (But sometimes the calculated coordinates of the nodes and edges of the subsystems have to be clarified on the ground - for example, by dowsing or even visually - because there are deformations in the cellular structure of the crust).

Space photography data have become an important confirmation of the system. Thus, the authors of the IDSE found in the photos of probe-5 and probe-7 a huge fracture, "Bachador = Bachariya", which ran along the line predicted by the identified system North Africa - Arabian Peninsula - South of Iran and Pakistan (7000 km).



The reef "Bachador-Bachariya extends from Morocco to Pakistan - exactly on one edge of the icosahedron.

On the topographic map of I. K. Volchanskaya and later on the pictures of "Nimbus-4" and "ERTS-1" of the American E. H. Latram in Alaska the earth's crust of Anchorage - Pradho Bey is identified exactly on the edge of the icosahedron. Other predictions were confirmed: Large oil deposits have been found in Pradho Bay in Alaska, as well as in the western part of the English Channel, in the Gulf of Cambodia, and in Hindustan. The methods of space geology (as described by cosmonaut V. I. Sevastiyanov) established the continuation of the Ural fold system far south to the end of the Persian Gulf continent. The photographs of the Gemini space capsule show three system kno- ten in the form of annular geological formations with a diameter of 300 - 350 km in Morocco-Algeria, in California and on the Bahamas Bank near Florida.

In some satellite images there is not only an icosahedron node - a ring with a diameter of 350 kilometers, but also one or two straight line segments or edges approaching it. Most impressive were the images of the node of the Bahamas and the node of the first subsystem in the area of the island of Socotra off the northeastern coast of Africa at the exit of the Gulf of Aden (on one third of the length of the triangle edge).

They are quite visible when a "complete" number of edges converge in the ring node (five for the main IDSE and six for the subsystem).

It is interesting what cosmonaut Viktor Savinykh says: "Observations from orbit have confirmed, for example, that the currents of sea and air are interconnected. However, it turned out that geological formations - lines and ring structures - also have similar characteristics. They are like gigantic currents and whirlwinds. From the space of the world, it can be clearly seen that clouds usually extend over large areas of the Earth's crust. In some cases, the gaps in the cloud de- ciplines are aligned along cracks that are not visible on the surface. In other words, the clouds serve as a kind of 'imprint' of the Earth's geologic structure."

The energy frame in the form of a dodecahedron with a favorable atmospheric state was once seen by one of the astronauts who was enchanted: "Look! The Earth is a luminous dodecahedron!"

Geomagnetism

The centers of all *geomagnetic anomalies* are located in the nodes of the system and the anomalies themselves repeat in area and configuration the corresponding triangles (nodes 4, 6, 8, 54, 29). Only one global geomagnetic anomaly - Brazil (49) - lies in the center of a pentagon. The centers of the ancient changes of the magnetic field are located in the regions 1, 4, 9, 11, 17. Also here helped the "strange object" - ders dodecahedron with openings in the middle of each partial surface. If we assume that this is an energy model of the plane, then the 12 holes symbolize exits of six energy axes through the center of the Earth:

- Axis No. 1. One of its ends comes out near Easter Island (27° S, 113° W), where geophysicists of the United States and France found the strongest magnetic deviations, and the other end goes to Pakistan (27° N, 67° E.). Soviet geophysicist G. Barta wrote about this region in the book "Present and Past of the Earth's Magnetic Field" in 1965:

"Pakistan is the center of a steep current with a radius of 3000 km" (as the radius of the circle inscribed in the pentagon) and further: "It is interesting to note that the magnetic center of the Earth shows eccentricity ... and that the movement of the center point indicates Pakistan". The axis "Easter Island - Pakistan" would be the most remarkable, but some years after the publication of the book of G. Barta the Pakistani magnetic center disappeared, moving to the Caspian Sea. Perhaps future studies will confirm this axis.

- Axis No. 2: One end runs between the Florida Peninsula, Bermuda and Vierge Island (27° N, 77° W.), where one of the two points on Earth is located where the compass needle does not indicate the magnetic pole, but the geographical one. At this place, called the "Pyavolsky Triangle", ships and airplanes often disappear without a trace. The opposite end of this axis extends west of Aus- tralia (27° S, 103° E), where there is also a strong heterogeneity in the properties of the geomagnetic field.
- Axis No. 3: One of its ends goes to the "Devil's Sea", between the Phi- lippines, Japan and the island of Guam. Here is the second point after Florida on Earth where the compass indicates not the magnetic pole, but the geographic pole. Just like on the Florida peninsula, ships and airplanes often disappear here. The second end of this axis is located exactly in the center of the huge Brazilian magnetic anomaly (27°S, 41°E), which is interesting because it causes a deflection into a magnetic funnel (bent here up to 300 kilometers from the surface by charged particles from space), which in turn causes disorientation of the ion sensors of artificial Earth satellites. According to observations of a special American satellite, thunderstorms are ten times more frequent in this region than on the rest of the Earth's surface.
- Axis #4: Its ends are the geographic north and south poles of the Earth.
- For the two remaining axes (27° N, 149° W - 27°S., 31° E and 27° N, 5° W - 27° S, 175° E) there is not enough geophysical material so far, but it is obviously only a matter of time before this changes.

With magnetic anomalies, not everything is simple: they behave like a blinking traffic light: on the maps of some components of the magnetic field there are some anomalies and on the maps of other components some ano- malies may disappear while others appear (or the same anomalies shift relative to the degree grid taking into account the different components of the field). In addition, there is the so-called westward drift of the ano- malies: they move westward at a rate of 0.2° per year. The opponents say: "Yes, now all magnetic anomalies of the world agree with the proposed system. But after 100 years, the ano- malies will have drifted 20° to the west; then there will be a complete disagreement with the system." A number of researchers, however, believe that this phenomenon is not frequent and, above all, not constant. They distinguish drifting and non-drifting components of the field, with the non-drifting anomalies located near KLnotes 6, 13, 18, 40.

By and large, the vast majority of magnetic anomalies are still confined to the nodes of the system. The discrepancy between individual anomalies can be explained by the neglect of regional features in field calculations and insufficient data, especially in the Southern Hemisphere. The drift of the field at a rate of 0.2° per year moves from one triangle to the next for 360 years and around the Earth for 1800 years. At these moments, the centers of the drifting and non-drifting anomalies will coincide and the nodes will become resonantly active again (360 and 1800 years are known cycles of geological and geophysical activity). Here, in addition to the spatial and temporal system, the work begins with the multiplicity of the 9 parameters of the triangular-pentagonal system of the ancients (see Appendix 3 for details). This means that the movement of the anomalies is probably subject to some general cosmic cycles.

Atmosphere and hydrosphere

All world centers of maxima and minima of atmospheric pressure are also located in the nodes of the system: In the southern hemisphere they are located in the centers of five rhombuses (nodes 42, 44, 46, 48, 50) and in the center of the triangle (27). In the Northern Hemisphere they coincide with the centers of triangles (4, 6, and 10), a pentagon (12), and the rhombus (19). The permanent regions of hurricane origin are also coordinated with the system: the Bahamas (18), the Arabian (12) and Arafurian (16).
(27) seas, the area south of Japan (14), north of New Zealand (45), the Tuamotu and Tahiti archipelagos (31). From summer to winter, pressure centers disappear in some nodes but only to emerge in others, often transforming from pressure peaks to minima and vice versa. It can be seen that the thermal mechanism of the atmosphere not only "feeds" on solar energy, but is also modified by the influence of IDSE.

On meteorological maps showing air currents in the high layers of the atmosphere, gigantic triangular contours of the geostrophic wind,[5] the current network of energy triangles of the planet, cloud rotations and cloud masses can be seen, which are anchored at the nodes of the system.

5 *At an altitude of several kilometers, the air masses are no longer closely connected to the earth's surface and begin to move independently of it. Such a wind is called geostrophic.*

Karte mit den Hauptströmungen der Weltozeane und dem Energiegerüst

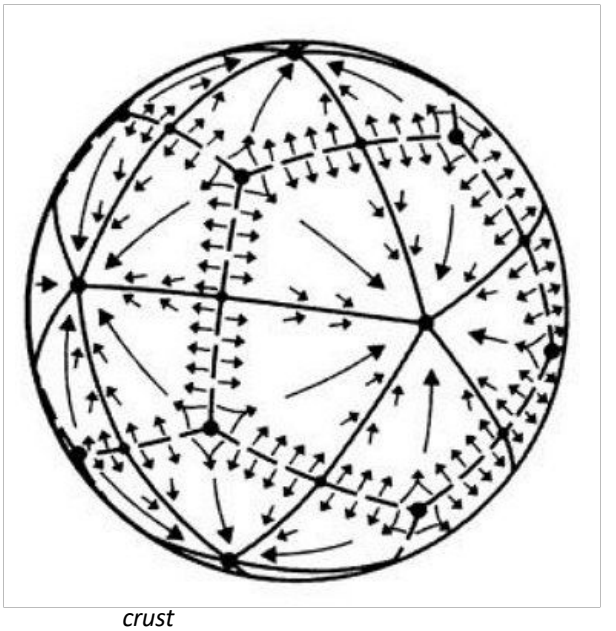
When researchers based their scientific predictions on the construction of real fragments of the IDSE model or on observations geographically related to its power frame, the probability of occurrence of the predictions turned out to be very high. Examples are the meteorological forecasts of the well-known Altai forecaster Anatoly Vasilyevich Dyakov or the determination of healthy or unhealthy and epipemiologically endangered places according to the method of Valery Evgenievich Khrapov. A. V. Dyakov relied on the system of general circulation of the Earth's atmosphere established in meteorology.

This system is indeed an essential part of the convection in the atmospherical envelope described by IDSE and similar convections in other shell systems. A. Dyakov put great emphasis on the statement that the Earth's atmosphere is a self-oscillating system with a continuous energy supply from outside (presumably from the Sun). However, with all respect for his works, it can be said that the "system of energy poles" discovered by him is in reality a selection system of IDSE nodes and their subsystems of different order.

The gigantic turbulence of the world ocean currents acts around the nodes of the system and often coincides with regions of maxima or mi- nima of atmospheric pressure. It is difficult to say what causes these turns, but apparently the IDSE somehow contributes to the formation of these "mega-forces" in addition to factors known to geographers. There are also areas of maxima of solar radiation in the nodes of the system, which is unevenly distributed over the Earth's surface, forming islands, "solar vortices."

The two largest maxima are located in the centers of the diamonds (1 Egypt and 17 California), the third in the center of the pentagon (41 South Africa). The location of the other maxima and minima of the radiation are also near the points of the system. Interestingly, the most significant maximum of solar radiation was located on the main starting point of the system (the Pyramid of Cheops).

The effects of the icosahedron and dodecahedron



crust

The analysis of the phenomena, processes and structures confined to the spherical lattices of the two polygons of the system has shown that in some aspects they perform directly opposite functions.

Thus, in the nodes and edges of the icosahedron, the relief is often lowered, the earth's crust is deflected; sediments, oil and gas, and the largest deposits of diamonds and uranium are formed.

In the depths of the crust under these nodes can be we assume the presence of peculiar "funnels" formed by the downward bent bark blocks through which the substance sinks into the innermost part of the earth. Therefore, these nodes are visible from space as condensed ring structures on the land surface or already at the shallow bottom of the world ocean. Many of the phenomena observed in these areas suggest the absorption of a substance during the periods of activity of these nodes. Apparently it was no coincidence that some of them appear in the names: "Devil's Triangle", "Devil's Sea", "Drakensberg", etc.

In the nodes and edges of the dodecahedron, the relief is usually elevated or tends to be larger, matter rises from the depths of the planet, global iron ore deposits, geochemical provinces and so-called rift zones are formed.[6] Substances are deeply embedded in the crust, pushing and enlarging it.

6 *Rift or rift valley is a linearly stretched structure of the earth's crust with a width of several tens to several hundreds of kilometers, bounded by faults.*

The movement of the matter of the Earth's crust is mainly from the edges and vertices of the dodecahedron to the edges and especially to the vertices of the icosahedron (or in the same: from the centers of the trines to their vertices). Such movements are in particular the movements of the Arabi- peninsula to the northeast, of the earth's crust from Lake Baikal to Pakistan and Hindustan (as a result of which the Himalayas have risen and continue to move), the separation of the Californian peninsula from the American continent.

The same movements satisfactorily explain the origin of the Alpine folding.

Thus, the twenty regions of the planet (corresponding to the vertices of the dodecahedron) are the centers of flow of the ascending substance, and the other twelve (the tops of the icosahedron) are the centers of the downward flows. One obtains, so to speak, scaffolds of compression (up to the edges of the icosahedron) and of expansion (along the edges of the dodecahedron). The zones of the rising substance of the Earth's crust contract to twelve equal structural plates, i.e. the surface of the planet tends to assume the symmetry of the dodecahedron. On the other hand, the pressure of the pentagons is balanced by the zones of the descending substance. Through the deep faults, the substance of the crust reaches the depths of the Earth and scoops sediment and debris from the surface, together with dead organic matter that hides these faults, that is, the icosahedral framework. It is characteristic that positive or negative stripe and circle anomalies of the planet's magnetic and gravitational field are generated in accordance with the lifting or lowering of the substance along the edges and nodes of the IDSE.

All shells of the planet are involved in this mechanism of substance transfer, in each of which so-called convection currents of substance function. Especially the substance of the earth's crust, the earth's mantle and the outer core is involved in the convection mechanism, and this explains to a large extent the essence of the processes taking place on earth (for details see chapter 3).

Let's take a closer look at how the **icosahedron framework** manifests itself on our planet.

The manifestation of downward currents of the land mass was still recently denied by the official science and upward currents are taken seriously only from 1971. We are not obliged to observe these processes, but we can hear them.

Élisée Reclus (1900), in a volume of his 12-volume Encyclopedia, described incomprehensible phenomena that travelers sometimes encounter on the Erg Igidi pla- teau (Algerian knot 20). He tells how, in the absolute silence, a strange rustling begins with various sounds of variable sound intensity and then continues for a long time. As if it were penetrating from below. One cannot let go of it, it almost leads to madness. Suddenly it stops, after a while it starts again - as if it were now somewhere apart. This is not a hallucination of people, because horses also hear it and get into a rage, although they do not know what it is and where it comes from.

The scientist says that something similar happens in the sands of Sinai. The cause of the whistling sound there (a much smaller effect, which does not cause such a reaction) is considered to be the deposition of sand in developing cavities during slow, imperceptible movements of the Arabian Peninsula, which is moving away from Africa. And he asks the legitimate question, "Where does the sand flow down here?" Whereas it is sufficiently compacted on the surface in this region. In fact, the Algerian knot is clearly visible in the sand of the northwestern Sahara, since there is no sand in the right circle with a diameter of about 350 km.

Reclus gives another example that confuses the inhabitants of a small oasis somewhere in the Tar Desert with its inexplicability: "Three adjacent cultivated areas border each other. In the morning, after a normal, unremarkable night, it turns out that the left edge is unchanged, the right edge for some reason is almost half as wide and begins to touch the left. The middle one disappeared completely."

These are apparently examples of the quiet or relatively quiet operation of the "Massetrichter", the descending channel, and one can even speak of the existence of "silent earthquakes". In the late 1970s E. V. Bo- discovered

rodzich, an employee of the Laboratory of Heliometric Studies at the Scientific Mineralogical Research Institute of the USSR Earth crust oscillations, as it were the "breathing" of the planet:

Several fluctuations in the heights and depths of the horizon were recorded at the Chashma Poyen training site in Tajikistan. According to the lei- ter of the laboratory, I. Yanitskogo, "it looked like spasmodic breathing of a sick person: a short nervous breath and shallow breathing".

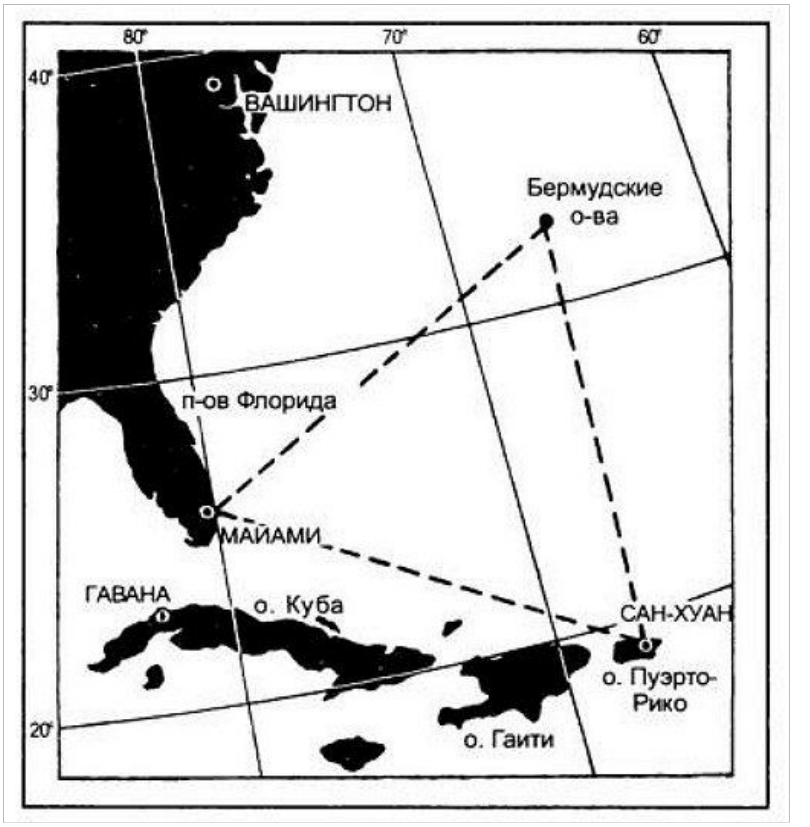
The studies that followed the discovery showed that small areas with a radius of tens to hundreds of kilometers are "breathed," while the
"inhalation" and "exhalation" lasts several hours to several days. Probably this corresponds exactly to the "portioned" absorption of earth substance into the neck of the funnel of a node. This seems to be in accordance with the later statement of Yanitskogo: "At the same time, water, air and electromagnetic fields behave completely ruthlessly: water columns or funnels rise in the ocean. Whirlwinds and gusty winds begin to rage in the atmosphere."

Y. Dovin describes in the article "Enigma of the Pacific Ocean" one of the external features of the Japanese knot (14): "400 kilometers east of Ogasawara there is a huge whirlpool with a radius of about hun- dert kilometers. Such a whirlpool is 10 times the normal ocean current. Strange is the behavior of the water vortex: it changes the direction of rotation about every 100 days. Scientists believe that the mechanism of this phenomenon does not resemble the structure of ocean currents, which are formed under the influence of wind, temperature and air currents.

In a letter of the journalist O. Gorbunov to the IDSE authors this si- tuation in the area of the Japanese node is described: "This area was precisely the one that is called 'dead swell'. Motionless thick air, tense oppressive environment, general irritability, unpleasant silence and complete lifelessness in the water and in the air, the wheat grains stopped germinating, they germinated only up to the moment when the ship entered the water - area. Then they rotted. Everything changed when the ship realized the uselessness of its presence in this zone and left it to the east."

This area, often referred to as the "Devil's Sea," has been officially classified as a dangerous place by the Japanese authorities because ships and aircraft have repeatedly disappeared there without a trace, without an SOS signal having been given beforehand. In connection with this incomprehensible disappearance, scientists decided in 1955 to explore the area. They sailed with the "Kaye-Maru-5" over the Devil's Sea, took measurements and collected data, when this ship also suddenly disappeared. Even in ancient times, neighboring fishermen believed that a ship-eating monster inhabited the Devil's Sea. Therefore, they were afraid of this area. Under similar circumstances, ships die in the Bermuda Triangle.

The Bermuda Triangle (18). For unknown reasons, ships sink and planes disappear in this notorious area, their electronic equipment fails, anomalies are observed - either mysterious silences or sudden violent storms and whirlpools, sunspots on the water covered with foam (as Christopher Columbus wrote).



The Bermuda Triangle

Time anomalies are also detected. The literature contains many descriptions of these phenomena. Some of them can be explained on quite prosaic grounds, but the mystery of the Bermuda Triangle (and other similar areas) is undoubtedly more complicated, and this anomaly is probably due to the action of various factors.

Three main types of unusual tragedies were recorded in the Bermuda Triangle:

- the complete disappearance of a floating or flying vehicle with all its crew and passengers,
- the instant death of the entire crew on a completely undisturbed ship,
- the disappearance of the crew (and passengers) from the ship without a trace (and, according to all indirect evidence, peacefully) and without apparent cause.

It may be assumed that the degree of tragedy of the event changes at a distance from the observed "epicenter" and, moreover, it is not always possible to determine the exact location of the disaster - especially when pilotless ships with dead persons or without persons drift for some time until they are discovered. On the other hand, many ships and aircraft pass through this area without damage. That is, the effect of this destructive anomaly is not constant.

"The Bahamas Bank makes an eerie impression," writes cosmonaut V. V. Vasyutin, "the water is light green to a depth of 10 meters. In the center, a huge semicircular slump with sharply defined edges is clearly visible at a depth of about 400 meters. Perpendicular to the edges of the basin, the features are like on the surface of the earth, near rivers and lakes. There is an impression that this sinking goes under the Bahama Bank!" It is characteristic that craters in the Earth's crust can be reflected in the water in potential disaster areas of the planet. In the Bahamas, the water level is 25 meters below normal.

(It is interesting that the diameter of this anomaly is almost equal to the calculated diameter of the surface nodes of the icosahedron - 350 km).

The correspondent of the Literary Newspaper L. Pochivalov, as a member of an expedition, writes in the article "Are there any secrets in the Ber- muda Triangle?" the following. The following: "At one of the meetings the weather prognostic Yurata Mikolayunene reported anxiously: the barometer is dropping rapidly. Two hours later, they were afraid of new information: The barometer was indeed falling ra- pidly. The ocean was almost calm, but the barometer was dropping lower and lower, approaching dangerous limits. Heads were filled with lead. The ship's doctor reached for the pills. Neither were the waves howling, nor the wind whistling in the rigging, nor the sea lashing, but it seemed as if the air was filled with an un- understandable alarm. That evening, I did not see a smile. One of the crew members could not stand the drop in pressure and died of a stroke." This observation is very similar to the description of the "dead swell" in the Japanese knot.

Peter Michelmore, citing some characteristics of the Bermuda Triangle, describes "strong descending air currents that can propel a modern jet airliner thousands of feet in seconds." The same, "as yet unknown atmospheric phenomenon in which air flows to the Earth's surface at speeds of 80 to 100 mph and several kilometers wide," also notes meteorologist Fujita of the University of Chi- cago. He goes on to write, "It can happen at any time of day or year, but it is most common during hot weather. It has been found that this phenomenon norma- ly coincides with the twister of a tornado." Both phenomena are most likely caused by the same reason. In addition, it is known that from 1964 to 1984, 27 commercial aircraft were destroyed over the continental United States in the descending airflow. Particularly marked areas are located in New York, Denver, and by Philadelphia. These areas correspond to the nodes of the IDSE subsystems and therefore the energy of anomalous manifestations in them is much lower than in the twelve global nodes, but this value has apparently proved to be sufficient.

The observed upheavals of the geostrophic wind can only occur in much stronger air layers, especially those that are thinner at high altitudes. And in these contours one sees descending branches of convective currents from at least one atmospheric envelope directed radially toward the corresponding nodes of the icosahedral framework on the surface of the planet. That is, there is always a pole of air above the node ready to abruptly change velocity and break off downstream. Its density is likely to be greater than the air density outside this pole and its axial part does not participate in horizontal motions. For this reason, in nodal areas with relatively calm weather, an even calmer situation occurs - "dead swell," i.e., figuratively speaking, a column of descending airflow rests on the water. To put the system out of action, a release mechanism must operate.

Among other scientific explanations of the tragic events, the authors of IDSE point out the hypotheses of G. V. Talalaevsky and V. N. Fo- menko. The hypothesis of G. V. Talalaevsky is connected with the phenomenon of weight change of bodies in atmospheric and oceanic vortices: When the ship is in the center of such a vortex, it goes to the bottom. (According to a number of other researchers, oceanic eddies in this area can be generated by the Gulf Stream.) In his opinion, "gravitational anomalies arise in the center of large oceanic eddies," which in turn cause a spatial curvature and a temporal delay.

N. Fomenko suggests that the movement of migrating ring vortices leads to the release of carbon dioxide from the deep cold waters when they rise to the surface. At a certain moment, the water seems to boil, the density of such a medium drops sharply and the ship sinks. At a depth where it does not "boil", it is crushed by a column of water.

If the ship is at some distance from the "epicenter," it can maintain stability in an unstable environment, but people who choke on coal dioxide die or panic and go overboard.

Another variant of this hypothesis is proposed by Australian scientists. According to them, there are deposits of the natural gas methane at the bottom of the world ocean, which is present in a solid state (in the form of hydrates) due to the enormous pressure at depth, but which enters the gaseous phase during local catastrophes (e.g. earthquakes), creating huge bubble clouds that flow to the surface.

Another likely killer candidate or source of fear and dis- ease is *infrasound*, which is not perceived by the human ear (it has frequencies of less than 16 Hz, while the ear perceives sounds with fre- quencies of 16 to 20,000 Hz). Strong infrasound fluctuations can disrupt arterial blood pressure, heart rhythm, cardiac contractility, respiration, cause hearing and visual impairment, negatively affect a person's mental state (fluctuations that coincide with the brain's alpha rhythm affect human behavior), and create a sense of danger or irrational fear. Infrasound extends far away from the places of its origin, both on the water and in the air, and therefore it is also called the "voice of the sea" (term used by the academic V. Shuleikin). It can propagate over long distances with almost no loss of vibration, overcome even large obstacles and hit not only ships and submarines, but also low-flying aircraft. In the na- ture, infrasound noises typically occur during earthquakes, storms, and whirlwinds. Often they are precursors for the surrounding regions, as they propagate faster than ocean and air currents.

The scientific history of infrasound began in the 1920s with the experiment of the American physicist and magician Robert Wood. The great organ tube he presented in the London theater to realize the director's idea of creating an atmosphere of mystery and fear exceeded all expectations. An inaudible sound made the crystal pendants of the chandeliers clink, not only the spectators but also the people in the street rushed to their feet, not even leaving the horses at the entrance.

In the same years, when in a newly built factory in Marseille, France, after only one hour of work, a strange psychic stress was revealed to the employees of one of the laboratories, they remembered the "miracle" of London and suggested to look for a similar generator of inaudible low frequencies on this occasion. As it turned out, one of the ventilation ducts had this property, and it just so happened that the laboratory room itself offered good resonance.

Perhaps because of this episode, Marseille was destined to become the city where the most important infrasound studies were conducted under the guidance of Professor Gavreau. In the laboratory of the Science Center, Professor Gavreau used a huge organ tube (24 meters long) and about the same tube made of concrete as infrasound source. The laboratory was almost destroyed "with the help of the latter tube", although for the first experience it was started only with low power, ten times less than it could have given.

In the meantime, laboratory tests in different countries of the world have shown that infrasound affects different human organs depending on frequency and power and resonates with their own oscillation frequency. (However, there are also opposite results for some very moderate infrasound frequencies). Resonant infrasound frequencies are very dangerous for the heart. In animal experiments, their coincidence with the frequency of contractions of the heart caused rupture of its blood vessels. It has also been suggested that infra- sonic vibrations at frequencies opposite in phase to those of the heart can stop the heart.

The question of the possible power and consequently the danger of the "voice of the sea" is controversial. In contrast, if we rely on evidence from the distant past, the conclusions can be very surprising:

For example, from what sound fell the walls of Jericho? What kind of whistle near the village of Nine Oaks in the northwest of the Oryol region Nightingale killed the robber or scattered people in deepest fear? Finally, how did Homer's Ulysses know of a place in the Mediterranean where the sirens sang dangerously? And don't the methods of protection from this singing for the rowers (ears tightly closed) and for himself (moored tightly to the mast) testify to the legitimacy of the assumption that the risk of infrasound was known not only in antiquity, but also regarding its possible effects. Therefore, were any measures taken in advance? Due to the dry location of the site (Algeria), in the area of which sirens most likely sang, should it not be assumed that when sand whistled under the Erg Igidi plateau, the infrasound vibrations that occurred were transmitted through air and carried more than 1000 km out to sea? Perhaps reflected from island or coastal cliffs, they seem to be concentrated in the same place known to the ancient seafarers and to which they arrived according to Homer.

It is well known that animals are very sensitive to infrasound. Even at weak vibrations, they immediately show clear signs of fear: anticipating the danger, animals leave the areas of supposed infrasound propagation in an organized or panic manner. Already some hours before the earthquake, rabbits try to get away from the source of the increasing infrasound vibrations, dogs leave their houses, pigs run away from pigsties. Also known is the lifelessness of the ocean spaces with a "dead swell", which could indicate a similar reaction of all inhabitants of the under- and above- water world.

Animals leaving sound-prone areas are likely to be spurred by extreme distances from the areas of infrasound origin and guided by the usual directions of propagation, although deviations sometimes occur, which is why the animal may be harmed. There are about 130 known regions of increased cetacean mortality, 10 of which are particularly pronounced - there have been multiple releases of higher aquatic mammals onto land. Six of these 10 locations are also catastrophic for crews of ships and aircraft; they are the intersections of the Earth's icosahedron: the Bahamas, the sea north of New Zealand, west of Australia, South Africa, east of southern Brazil, and south of Japan. And four others are the intersections of the edges of the IDSE polyhedra, which can behave like the nodes of the icocahedron and then of the dodecahedron. Much rarer, but still possible, are cases of suicides of marine animals within the activity of an oceanic dodecahedron node, such as in Sivuchya Bay in eastern Kamchatka. It is possible that the rising funnel may also generate infrasound in some cases.

It is a fact that antelope herds on the South African coast left their habitat in panic and sought rescue in the depths of the ocean. In this case, the impact of the South African "land" nodes can be seen. On land, the born infrasound can reach dangerous forces. It cannot be excluded that for the same reason in some years mysterious processions of lemmings to the sea with suicides will take place on the Norwegian coast.

Everything suggests that the reason why animals and humans are encouraged to leave their environment is the same: all the effects listed - air and sea vortices, descending air currents, "dead swell", infrasound - are most likely the result of substances in the funnel neck, which has been out of service for a long time.

Also oscillations in the magnetic and gravitational field of local regions are to be assumed. These fluctuations are noticed by many scientists; their seemingly irregular occurrence is puzzling. Thus, the Russian scientist R.P. Bulatov, stating "the maximum change in the intensity of the magnetic field right here (in the Bermuda Triangle)," admits in bewilderment, "It is not clear! Maybe there is something under the ocean that causes a similar anomaly."

The so-called Philadelphia Experiment, conducted by the U.S. Navy in October 1943, comes to mind here and has led to many different rumors and conjectures.

> According to legend, the purpose of this experiment was to achieve the invisibility of a warship ("Elridge") with its crew to enemy radar by creating an "electromagnetic bubble" that would deflect radio waves around this destroyer. Magnetic generators of gigantic power were used for this purpose, according to theoretical calculations by Albert Einstein. However, the experiment did not go according to the planned scenario: as soon as the generators were switched on, the "Elridge" was enveloped in a greenish fog and then the fog started to disappear ... together with the destroyer! That is, it became visually invisible; only the imprint of the ship remained on the water. After a few minutes or seconds (according to various sources) the ship reappeared, but as it turned out, during its absence the "Elridge" went to the docks of the port of Norfolk (at a distance of 640 km) and then returned to Philadelphia. As a result of the experiment, some of the destroyer's crew became insane, some died or disappeared, and five people were melted into the ship's metal plating. People claimed that they fell into another world and saw unknown beings. Immediately after the experiment, they seemed to fall out of real time and spontaneously ignite near magnetized objects. One of the sailors of the "Elridge" disappeared forever, but went through the wall of his own apartment in front of his wife and child.
>
> This, in short, is the unofficial story of the Philadelphia experiment, but the official version does not exist, no documents about it have been found, even the ship's magazines of the "Elridge"...

strangely enough, disappeared. What did open up was the merit of Morris Ketchum Jessup, a man of varied interests who studied the subject. E are letters to Jessup from a certain Carlos Miguel Allende known and partly published, who claimed that he had served on one of the ships accompanying the Philadelphia experiment in 1943, saw everything with his own eyes, and even touched the greenish glow around "Elridge" during the experiment. Jessup had perhaps learned too much when he died under mysterious circumstances.

Was the Philadelphia experiment really performed as described? It is difficult to answer this question from today's point of view, but apparently the US Navy was able to achieve the effect of invisibility and even teleportation by accident or on purpose. It is even said that such experiments continued, and in 1983 it was possible to create a passage in space-time in a controlled way ... If this is the case, it means that similar effects can occur in nature, in the moments of electricity and magnetic fields in the nodes of the icosahedral framework of the Earth. Perhaps this explains the disappearance of ships and airplanes, disruptions in the operation of electronic and navigational equipment, and time anomalies in areas such as the Bermuda Triangle.

This is how the "descending" icosahedral nodes of the Earth's energy plant work. The attentive reader will ask here: How could ancient civilizations arise and exist in such terrible places? The fact is that these areas were not always so and the activity of the IDSE should be considered in its dynamics. More on this at the end of Chapter 3. And then what happens in the "ascending" dodecahedral nodes? As it turned out, electrochemical effects play a significant role in the manifestation of these nodes, and this is especially noticeable in the nature from which we now proceed.

Geochemistry influences life

Chemical reactions and an enormous exchange of substances take place continuously in the depths of the earth. Each type of exchange is usually accompanied by electrical phenomena. One mineral plays the role of anode, the other that of cathode. In a humid environment, this galvanic battery works like an electrolysis bath: the minerals dissolve and form new compounds. Native, pure elements or their oxides accumulate on the mineral cathodes. Such effects have been confirmed by experiments conducted by the Scientific Research Institute of Intelligence and Technology (St. Petersburg). With their help, geologists determine which metal ores lie in the Earth's crust, and they even believe that it is possible to generate *deep metals.* The IDSE nodes with their geophysical anomalies can serve as attraction points like electrodes, they can be particularly active for the migration of chemical elements in the Earth's crust. As a result, geochemical provinces can form at the nodes of the system.

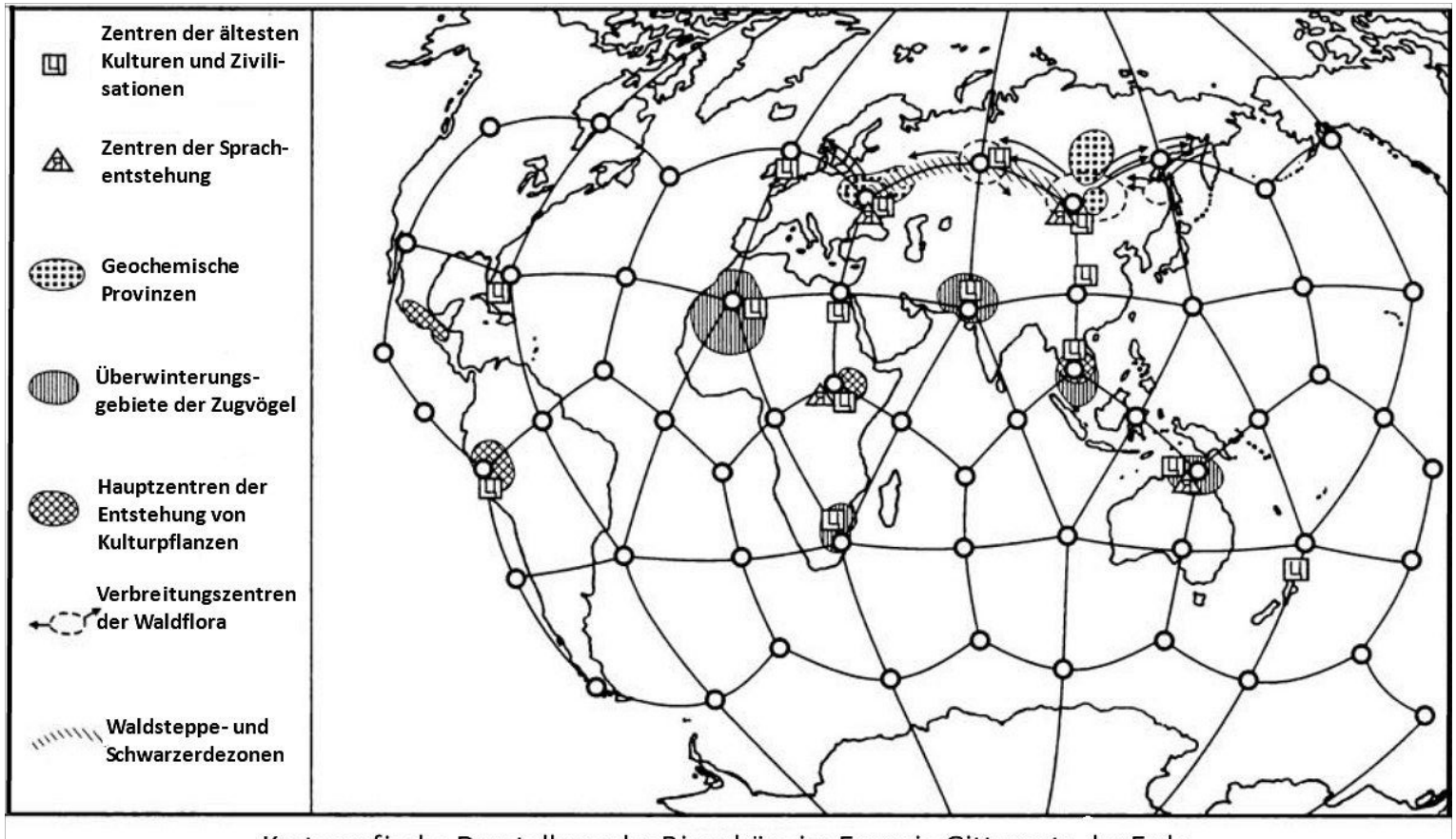
IDSE in this way is able to influence even living organisms. Accordingly, the biochemist V. Kovalsky in 1971 on the map of the USSR connected centers of aggravation of natural selection with a deficiency or excess of the content in the geochemical environment of various chemical elements. This map clearly identifies two of the most extensive geochemical provinces: in the European part of the country and near Lake Baikal, that is, near the centers of the two triangles of the system (2 and 4). The provinces are only slightly shifted to the north, both shifted probably due to a protracted idenbtic process. Note that these two points are vertices of the Earth dodecahedron.

Soils in Site 2 lack cobalt and copper, and those in Site 4 lack iodine. In these areas there was and is an increase in natural selection in plants and animals.

As a result of an acute shortage of some vital chemical trace elements and an excess of others, some plant species, and through them in turn animals, die out, but others that have adapted develop rapidly. This is understandable: plants, in fact, absorb trace elements from the soil as food, and these then reach animals along with water and plant food and, as scientists have noted, strongly influence the development of living things. Thus, the existence of geochemical provinces in turn leads to the formation of *biogeochemical provinces*.

Kovalsky developed a map of the bio-geochemical zoning of the USSR. It turned out that the black earth zone, favorable for agriculture, extends over the territory of the former Soviet Union exactly on the edges of the pentagons. Taking into account the influence of magnetic anomalies, radioactivity and solar radiation in the nodes of the system, it can be stated that all this is accomplished by assuming a sequential alogrhythm: a node or edge of the system > a geophysical anomaly > a geochemical province > biogeochemical province.

On the territory of Eurasia, during the development of the Quaternary period, forest vegetation remained in certain areas, which are therefore called "shelters of life". After the retreat of the ice, the flora of coniferous and deciduous forests, which spread from these "shelters of life", formed the modern forest zone with its numerous subdivisions. This
"Living shelters" are located near nodes 2, 3, 4, and 5 and generally coincide with these nodes. Deciduous forests spread from area 2, deciduous and coniferous forests from area 3 and coniferous forests from area 4 and 5. The most powerful center (4) - Altai-Sayan - is still the oldest and largest in Eurasia. Interestingly, the "splashes" from this region, located in the center of the "Siberian" triangle, were directed exactly to the center of two sides of the same triangle (3 Middle Ural, 5 coast of the Sea of Okhotsk), indicating with the edges the pentagons.



Kartografische Darstellung der Biosphäre im Energie-Gitternetz der Erde

The tropical forest flora development centers in South America (36), the primary (pre-glacial) steppe flora center in South Africa (41), and the steppe flora development center in North America (17) also coincide with the nodal points of the system.

An outstanding biologist of the Soviet Academy, I. Vavilov, is credited with the development of the science of the centers of origin of cultivated plant species. According to his map, a major plant center in South America (35) and the only one on the African continent (21) were located in the centers of the triangles. Likewise, the center of the triangle (25 Thailand - South Vietnam) is the world center of the most important cultivated plants. In addition, as already communicated, traces of the oldest agriculture in the world were found here in the center of the triangle 2000 years before the Near East. The remaining crop centers do not fall in the centers of the triangles, most of them extend from west to east through the whole of Eurasia between the 20th and the 40th northern latitude.

In the nodes of the system and along its edges, grave anomalies of the living world are often observed. For example, Lake Baikal (4) is located in the center of the Siberian Triangle, which is known for its unique fauna and flora. Three quarters of the plant and animal species of this lake are found nowhere else in the world; Baikal plants and animals, for the most part, cannot live in other lakes, and vice versa, representatives of the paleo-Arctic flora and fauna surrounding the lake cannot enter the symbiosis of Baikal inhabitants. Lake Baikal is constantly forming new species of organisms. Today, without exaggeration, Lake Baikal is unique in its kind, a huge natural speciation laboratory.

In the nodes and along the edges of the system, according to their function as "habitats" and speciation centers, relict plants and species are found whose relatives lived on Earth in ancient times and were already thought to have disappeared from the planet.

From the population of Lake Baikal one can hear from time to time stories of a huge animal, unknown to science, which sometimes emerges from the depths of the lake. And in the area of another system kno- ten (11) lies the Scottish Loch Ness, which has disturbed the minds of scientists for several decades: eyewitnesses have also repeatedly observed there a huge, scientifically unknown "monster" called "Nessi", which looks like an animal extinct for millions of years. A fish thought to be long extinct was caught off the coast of South Africa (near 41). In New Zealand (45), a similar creature was reportedly caught by Japanese fishermen. Near the Aleutian Islands (6), an echo sounder under the ship recorded the "outline of an animal" that looked exactly like the image of Nessi. In the swamps of Sudan (21), the natives saw the "flying prakono." Giant sequoias grow in California (17). Relic vegetation is also known in Gabon (40), the Far East, the Seychelles (23), and the Galapagos (34).

In the area of the 5th system node and along the edge that extends from there, the coast of the Sea of Okhotsk and Sakhalin Island, the plants grow many times higher than expected: under a climbing plant of three meters of growth, you can safely wait for the rain. If we bring these plants from another place to another, they return to normal size; conversely, plants brought to this area become giants after only a few years. The attempt to transfer giant buckwheat from there to Europe with the aim of achieving record yields failed: After two or three years, this buckwheat had reverted to ordinary substance.

Interestingly, *birds* apparently feel the nodes of the system, they find them accurately every year, because the world's largest wintering areas for birds are located in the centers of the Pentagons (12 Pakistan region, 16 Hawaiian Islands, 20 Northwest of Africa, 41 South of Africa, 49 Brazil).

Well, ornithologists proved a long time ago that birds use the magnetic field of the earth as one of the most important signal transmitters when flying. Thereby the centers of the pentagons, as already mentioned, are the ends of six energy axes. In the region of Southeast Asia and Northern Australia, the center of the pentagon was not limited (it is in the ocean) and the birds chose instead the centers of two triangles for wintering (25 and 27, these are the vertices of the dodecahedron). Not all of them have a magnetic anomaly, but the birds fly there over 5 - 12,000 km, which could indicate the presence of other energy fields in the IDSE.

The strength of the grid affects *marine life*, forcing it to concentrate and migrate according to its nodes and ridges. For example, in the northern part of the Pacific Ocean, sperm whales gather exactly at the edges and nodes of the system, and tunas migrate there as well. Fishing will be most productive at the edges and nodes of the system. This has already been confirmed by fishermen, who reported that the areas of the nodes of the system are where the most fishing takes place, and even asked once to send them the exact coordinates.

Whales gather at edges 5 - 6 - 7 and 14 - 15 - 16, especially at
the nodes 6, 14, 15, in summer in the southern hemisphere - at 59, 60, 51,
53, 54, 55, and in winter at 35, 49, 41, 43, 45; turns of migration rou - tes in the northern hemisphere are at 18, 19, 14. Tuna migrate along ridges 14 - 15 - 16 - 17, along the "figure eight" with turns at 14 and 15. Eels migrate to 18. All of this is probably the result of effects of IDSE, although IDSE also acts indirectly: - via water chemistry, temperature, solar radiation, etc.

Of course, man as an integral part of the biosphere, that biological species which clearly responds to the geochemical and electromagnetic environment, could not escape the influence of the energy structure of IDSE, especially in the early stages of its development.

The emergence of man

Probably the IDSE contributed in different ways to the emergence of humans on the planet, to the formation of races, language families, further to the development of centers of ancient cultures and civilizations. First, where the appropriate crops grew, ci- vilizations could develop more easily. Living in black earth zones (located at the edges of pentagons) also contributed to the development of cultures. Second, once geochemical provinces have developed in the nodes of the system, humans receive some trace elements in excess through plant and animal food and water, whereas others remain deficient. This is the same experience that has been made with plants and animals. With aggravation of the natural selection here growth and development went faster. The academician N. I. Vavilov paid great attention to the connections of the regions of origin of cultivated plants with the world cultures.

Although recently the hypothesis of human descent from apes has been increasingly questioned, it is nevertheless interesting to note that there were centers of these human "ancestors" in a number of nodes: gorillas (40 Gabon), Paleopithecus (12 Pakistan), Gigantopitecus (13 China), Para- pithecus and Propliopithecus (1 Egypt), Austropalopithecus (- 41 South Africa), Pliopitecus (near 4 Southern Siberia).

There is an amazing stretch of three "great" races of men to certain triangles of the terrestrial icosahedron: European, North Asian and African races. The Caucasians, the Mongols and the Negroes
"demonstrate" already now in their predominant mass the areas of their racial formation. The most visible is the boundary of the two triangles, which extends from the Igidi Plateau in Algeria in the north of Africa towards the Indus Valley (more precisely to the Tar Desert) in Pakistan. The border between Caucasians and Negroes almost coincides with this common side of the triangles.

The center of the European triangle (2) coincides with the region where the Indo-European language family was formed. According to some specialists, it was located in the northern Black Sea region.

In northern Mongolia, the center of the North Asian triangle (4), is the center of origin of the Turkic languages. And in the center of the triangle, which is located on the Arnhem Land peninsula in the north of Australia (27), according to some researchers, lies the educational area of the Yulengor language.

Anomalies of human populations are found in a number of nodes: Acromicroscopy in 40 (Gabonese pygmies), small humans in Kambo- dscha and Vietnam (25), and a tall population in Scotland (11), Sudan (21), and Patagonia (58). Facial acromegaly has been noted in the indigenous population of Sa- chalin (edge 5 - 14) - increasing in some parts of the country, mainly in women. In Gabon (40), the lowest life expectancy is recorded; in other nodes, life sti- mulation is more frequent. Epidemic foci of disease have been found in some nodes (e.g., cholera on Sulawesi Island-26, etc.). Probably the field edges and nodes excite viruses, which are electromagnetic resonators according to A. L. Chizhevsky.

On the resettlement map of ancient mankind it is clear that the migra- tion jumps were often from one node to another node of the system or along its edges: from areas 13 (China), 4 (North Mon- golei), 2 (Central Europe), 26 (Indonesia). In the North Asian, European and African triangles, migrations were made from centers 2, 4, 21 to the center of ridges 11, 3, 5, 40 and vertices 20, 41, in other areas often from node to node, ending at nodes that played the role of "points of attraction". In Peru, the center of the South American triangle (35) is the center of the ancient cultures of the Mochica and the ancestors of the Incas. Hiroa found that the Polynesian culture forms the "Great Polynesian Triangle":

It extends from the center of the island of Tahiti (31) to the heights of Hawaii (16), New Zealand (45), Easter Island (47), and to the edge centers (30, 32, 46). The Hiroa triangle corresponds to the IDSE triangle. According to Thor Heyerdal, Easter Island was settled from Peru. However, this is the center of the neighboring South American triangle (35); the movements of peoples could be from the centers of both triangles to their common apex. Thus, IDSE reconciles both views, both theories.

In the end, we have returned to where we started, to the educational centers of cultures and civilizations. The system has closed in man!

However, the question of the origin of man himself remains open. We can only list some "strange" facts that have been uncovered by various researchers.

Thus, humans are not descendants of apes because the complex organism cannot evolve from the simple due to the lack of a creation plan and science is teaching more and more facts that there is a "missing link" between apes and humans. In support of the theory of human evolution from apes, it is often cited that the DNA of humans and chimpanzees differs by only 2 percent. However, studies show that two humans from different parts of the world have more identical genes than two apes from different ends of the same forest, and that the human body is closer to the pig than the ape in many biological characteristics.

We note an interesting and mysterious transitional phase from gatherer and hunter to arable farmer and animal breeder. About 30000 years ago the Cromagnon man appeared. He arose independently and did not gradually evolve from Neanderthals when their further development had stalled.

The last Neanderthals were in many ways inferior to the first humans, who had appeared on Earth more than a hundred thousand years before them, but had approached the Cromagnon. Science does not know how it turned out. There are known only mass findings in the caves of the "Le- bensgürtel" of the earth - bands from 30° to 35° northern latitude - the first Cromagnon individuals. In the same strata there are also Neanderta- ls, which are very different from them, at least the last "classical" ones. This means that they coexisted at one time (although Neander- tals probably survived as relics, if this is proved by the theory of Prof. Porshnev about so-called snow people). Moreover, scientists are amazed that Cromagnon people with different anthropological characteristics reside in the same caves, often in almost the same strata: Europeans, Mongoloids, Negroes ...

It seems that at that time there was a kind of planetary-scale laboratory (on the borders of this band) to breed Cromagnon-type humans and then place them in certain favorable locations for life on the planet. The fact that this resettlement was not always successful, says at least a finding of ancient Negroids near Old Voronezh. Thus the beginning of the future birth on Earth was laid.

It was a natural mixture of genera that led to the union and the emergence of tribes. It is unlikely that the first clans and tribes remained without the necessary attention. This is indicated by many strange figures and "technique" in the drawings of the oldest tribal and ancestral shrines, next to which are real images of life, animals, hunters, etc.. Recorded was what was seen, observed.

The transition to sedentary nature in the evolution of the Cromagnon began on earth about 10 - 12000 years ago and took place in various places, which were hitherto hidden from civilization. Inevitably, with the beginning of sedentary agriculture and animal husbandry among the tribes, the development of handicrafts, pottery, housing, weaving and burial became necessary at the same time.

At this stage of human development the following interest reaches us: folklore, legends, myths. A person of our time is a vain and very proud being, he does not pass the chance to become famous or to glorify his clan, people, nation and state, especially if there is a real reason for these deeds. But where does it appear in the folklore that someone's kinsman or a specific tribe itself learned cattle breeding, agriculture, pottery, weaving and handicrafts? Everywhere, according to the legend, this is taught by a stranger who came or arrived from somewhere. A person is usually unusual for them and has left such a strong mark that after his departure, in the course of time, he becomes an object of sacred, grateful remembrance for those descendants who call the person "Man-God" or simply "God".

In Egypt, Scythia and Peru, Mexico there is even a general type of ancient tombs: embalmed dead kings and nobles, with masks on their faces sometimes with "glasses" and "headphones". The dead were placed in a sar- cophagus or egg-shaped vessel. Many burials were accompanied by a rite of fire or the dead were rubbed with red ocher, symbolizing fire. It looks largely like a symbolic sending - as if imitating the "wires of the gods" flying away from the earth.

It is possible that the mentoring activity of an extraterrestrial intelligence on Earth in ancient times was carried out at the IDSE nodes and subsystems (both because of the physical energy fields and because of the communities of human populations that had already formed at the nodes). This activity could be the second factor (after the stimulating effect of IDSE) for a high level of development of cultures and civilizations in the nodes, it could have followed both by direct contact with earthlings and at a distance through the energy channels from the cosmos to the energy nodes, to earth and man. The traces of this activity can be found in the development of the land, in agriculture, animal husbandry, handicrafts, ethics, unreasonably high knowledge in various sciences, constructions, in cosmo- gony and religion, in oral and written ancient sources and images.

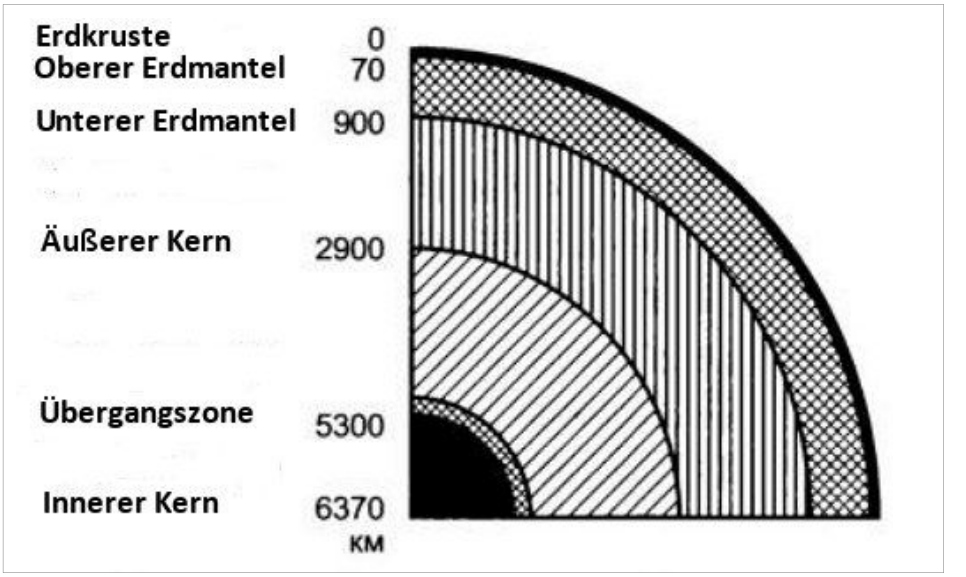
The ancients could get an impression of some elements of IDSE by direct, biophysical perception of the fields of their subsystems. But a complete picture of the system was most likely obtained from cosmic sources, hence the search for traces of contact between the ancient Earthlings and extraterrestrial civilizations, concerning IDSE and its subsystems. There are archaeological objects, pictures, texts as well as indirect da- tes, which point to the contact with extraterrestrial civilizations and the role of IDSE in this contact.

Chapter 3
The crystal heart of the earth

A bold assumption

When you look at the ordered phenomena on the surface of the earth, you involuntarily ask yourself: What is happening inside it then?

According to modern scientific concepts, the body of our planet consists of the earth's crust, the mantle (upper and lower) and the core (liquid outside and solid inside, consisting of an alloy of 80% iron and 20% nickel). A number of new theories clarify in their own way the number and properties of the Earth's shells. For example, following research by the Institute of High Pressure Physics of the Russian Academy of Sciences, it has been hypothesized that the Earth's inner core, which is under enormous pressure (about 3 million atmospheres), is not in a solid crystalline state, but in an amorphous ultra-viscosity, as laboratory tests suggest.



Scheme of the internal structure of the Earth.

On the other hand, scientists in the laboratories of the U.S. Department of Energy believe that the core of the Earth is not a core of iron and nickel, but a mixture of uranium and plutonium that maintains a constant nuclear reaction that generates the Earth's magnetic field, and that after the core burns out, the energy-matter magnetic field disappears and the planet cools.

The actual structure of the Earth's interior remains a mystery despite its obvious proximity.[7] The above hypotheses do not explain the cause of the geometrical arrangement of phenomena and processes on our pla- ne, as authoritative scientists of various disciplines state in their works:

According to the Russian geologist V. V. Belousov, "the totality and sequence of movements of the Earth's crust is the result of the action of a correct natural mechanism".

Geologist S. M. Grigoryev writes: "The Earth as a cosmic body is apparently a flexible self-regulating system that has great compensatory capabilities and is still far from exhausting its sources of development." The geophysicist R. M. Roma Delillus, one of the founders of crystallography, finds the following words regarding the study of the structure of the planet: "None of the existing theories can explain it, except on the basis of the theory of crystals.

7 *Although already the people of antiquity had an idea about it. Thus, myths speak of the departure of ancestors into the underworld or "of the old gods" under the earth, also that they hide in caves or crevices. The Armenian god Mihr dwells in a rock from which he emerges only when the old world collapses and a new one begins. A Nenets shaman spends 7 days trying to get to the iron dwelling of the landowner, where the moon and sun shine dimly. The underground worlds are great in most myths. According to Central American, Indo-European and other myths, they conceal from three to nine successive layers. Polynesian myths even speak of the subterranean origin of farm and domestic animals.*

On this basis, the IDSE authors have made a bold assumption that seems fantastic only at first glance. If the hypothesis is understood in de- tail, it helps to fulfill some of the postulates of modern geoscience and to link them into a single system. The planet's inner ei- vert core is said to be "responsible" for the IDSE, the hardest nucleolus, whose appearance inside the melt-like outer core is almost the most mysterious phenomenon in the body of our planet. According to Goncharov-Makarov-Morozov, this nucleolus has the shape of a dodecae- der and is like a crystal in the stage of growth in a melt or solution. It is called a geocrystal. At present it has a diameter of about 2200 km (more than one fifth of the average earth diameter of 12750 km).

Its growth is accompanied by radial currents of matter - descending, denser and ascending, which decay on the surfaces of the geocrystal depending on the "substrate". So here are currents; they try to create on the surface of the earth a "film" with the symmetry of icosahedron and dodecahedron according to the Curie- Shafranov principle of interaction of crystal and environment ("the symmetry of the cause remains in the symmetry of the effect").

The same forces of gravity gave the planet the shape of a sphere.

More precisely, the ball is only a first approximation to the real shape of the Earth, the ellipsoid is the second and the third and most accurate is the so-called kidney. It results in a heart-shaped, triaxial figure, which is flattened at the poles, and the northern semi-axis is a hundred me- ter longer than the southern one. The equatorial axes are also not equal; from the side of Africa and Australia, the earth is also flattened. This shape is due to the gravitational interaction of the earth with the moon. The terrestrial kidney has a number of remarkable points which correspond exactly to the nodes and sides of the identified system.

What does crystallography say?

The assumed "engine" of the earth mechanics received a comprehensive theoretical confirmation.

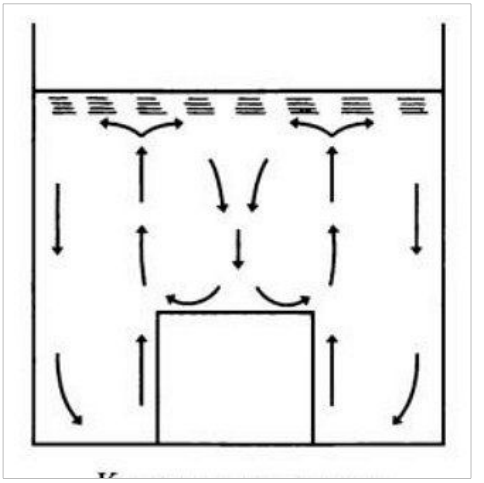
It is known from crystallography that from an energetic point of view an ordered structure is advantageous, since it requires a minimum of energy for its conservation. Therefore, many substances tend to have a crystalline state, i.e. polyhedral forms.

When a certain boundary condition is reached, crystals begin to grow from vapors, solutions, alloys or from crystals of other structure. The emergence of crystallization nuclei causes an immediate change in density (pressure) in the nearby layer of the solution (or melt), which induces a compensating flow. The field of the crystal begins to attract polymer molecules and particles surrounding one of the surfaces or part of it with a film. Growing crystals increase their surface area and thus the length of their own energy field. They arrange larger and larger transition layers and require a higher flow of crystal-forming substances that are in flow.

The growth processes of a crystal are inert. They do not necessarily require the participation of external forces, only a medium with certain properties is required. The growing crystal, which mixes the solution independently of external influences, is the main organizer of the growth process.

In nature, the movement of feed streams is normally caused by gravitational differentiation. In a liquid (or melt) where crystallization occurs, there is always an opposite movement of the concentration currents - supersaturated descending and slightly saturated ascending.

Concentration currents rising from the crystal during growth were discovered by Academician T. E. Loviem in 1803.



Concentration currents in a solution around a growing crystal.

Loviem placed great emphasis on "flow and flux properties [?] until all the liquid was used up to the point that the energy in the remaining salt particles ceased to act completely."

It is obvious that the ascending and descending fluxes follow such paths that they do not move in the opposite direction, but in a cycle. The largest value of the concentration gradient is located near the center of the crystal face; this observation is recorded with measuring instruments.

is drawn. That is, the direction of the descending supersaturated concentration flow is toward the center of the face of the growing crystal. Then the substance, gradually relieved by the loss of its heavier part, rises along the surface to the tops and edges, and from these the split concentration flow runs radially to the surface of the melt.

There is a macroscopic long-range mechanism that contributes to the formation of a proper macrocrystal and ensures the transport of material penetrating the surface of the growing crystal to the sites of the most durable embedding. This mechanism causes the appropriate structuring of the melt or solution and the formation of a quasi-crystalline structure in them near the growing surface of the crystal.

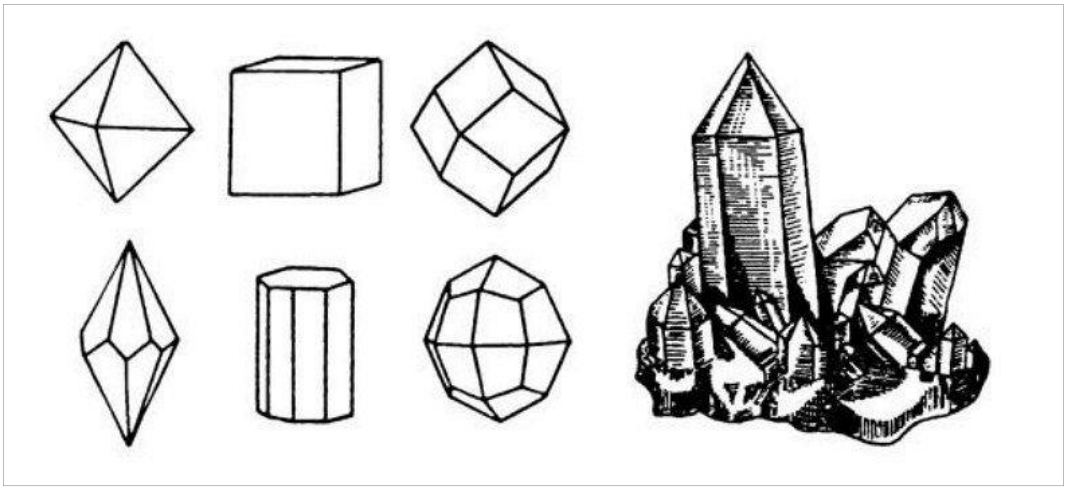
This is confirmed by the experience of G. I. Distler: The surface of a tiny seed crystal was covered with an insulation - a film of kerosene or a metal. Then the germ was placed in a nutrient medium - a supersaturated solution of this substance. And now what? The crystal began to grow as if there was no film! The deposition of the substance on the film took place in the order dictated by the structure of the germ.

This remote effect can apparently be explained by the fact that information about the structure of a crystal is "recorded" in the form of electric fields that cannot be completely shielded by protective films.

There are other interesting examples of this effect. For example, two centuries ago the chemist Tennant discovered a mouse that had died in a forgotten large jar containing a solution of iron vitriol and had turned into a gel image of crystalline iron. And in the 13th century an ore body was found in the Swedish Faunen Mountains, which fell into a deep crevice 60 years ago. It lay in the active field (i.e. not even in the solution or melt) of the pyrite deposit (FeS2) and already consisted entirely of FeS2 crystals, the symmetry of the pyrite lattice subordinating the structure of the organic body! Y. Metelev reports that in the US state of Arizona directly on the beach trunks of prehistoric trees, consisting of agate, were found. Since one million years wood is completely replaced by agate. Something similar happened with the seal bones found in Ukraine, which turned out to be eggs.

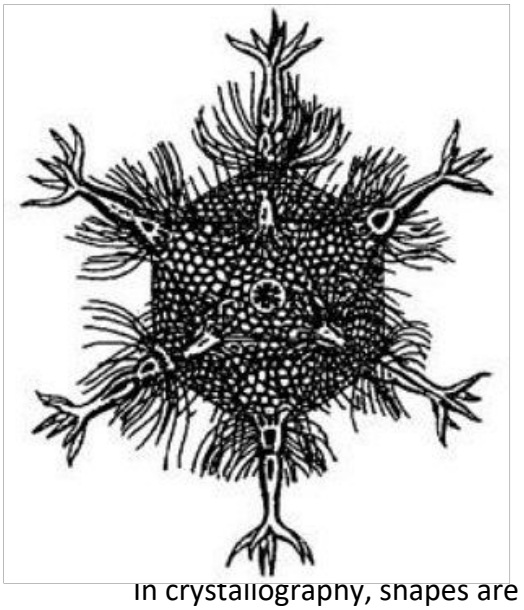
Now to the "verdict" in crystallography to implement the five-symmetry in crystals, i.e. to the impossibility that single crystals exist in the form of regular icosahedra and dodecahedra. It is impossible to build up such a dense packing of atoms that from only one elementary crystallization nucleus these forms are obtained according to generally accepted models and the laws of formation of a microcrystal.

But apparently nature also knows this limitation and tries to circumvent these laws of nature. Science is so surprised by complex crystals that it chooses new names for observable constructions: The entire mineral world consists of crystal communities ranging from tetrahedra to dodecahedra and shapes that have inherited the symmetry of several crystal-forming me- dia. Thus, the cube conveys the shape of salt crystals, the kris- tall of aluminum-potassium alum has the shape of an octahedron, of boron of the icosahedron.



Different types of crystals

After icosahedral structures were discovered by a number of substances, the concept of quasi-crystals or shechtma- nites (after the name of the discoverer and researcher of the crystallographic properties of the Dan Shechtman alloy sample) was introduced. Symmetries of regular polyhedra are also found in the organic world - the most impressive being the icosahedra and dodecahedra of viruses and radiolarians.



For the present dodecahedral form of the geocrystal, the IDSE theory foresees the gradual development from simple to more complex forms of this kind, first tetrahedron, cube and octahedron, only after that come the triangular and pentagonal symmetries, i.e. the icosahedron and the dodecahedron (further details on the development of the earth crystal are described below). Thus, the general form is composed of simpler forms and each simple form consists of the simplest basic forms, i.e. tetrahedra.

In crystallography, shapes are known that are very close to the dodecahedron.

e.g. iron compounds. The special conditions under which the mo-

derne geocrystal has formed and is growing, can be none other than that the packing scheme of its atomic constituents changes. According to recent crystallographic findings, crystallization processes run well at high pressures and temperatures.

It cannot be excluded that in the course of further development of crystallography the view of the direction of movement of the substance along the surface of the growing crystal will change. But even if it should turn out that the direction of movement of the substance along the surface of the growing crystal is opposite to the one in the current IDSE model (by the way, the initial view on this point was exactly the opposite), nothing changes in the overall construction, in the shapes of the convective cells and in the structuring of the shells in the image of a spherical dodecahedron, except - that the dodecahedron is now replaced by the icosahedron.

There are, however, arguments of an indirect nature against such a reorientation:

1) It is hard to imagine that the principle of hydraulics "from greater concentration to lower concentration" is violated, since in this case from above (and from the edge), where the distance from the center of the crystal (and the earth) is smaller and the average density is lower, after iron is deposited on this partial surface, the flowing substance
"sinks" instead of floating and moves towards the center of the part-surface, where there is the shortest distance to the center of the crystal and the greatest density of the medium.
2) In crystals, the largest amount of impurities is located at the corners and edges. Sometimes the edge itself (and the top) is not pointed, but has the shape of a "barrel", indicating that there is no "building material" at the end of the horizontal part of the moving flow loop before radial buoyancy.
3) The measurement of the time of the passage of seismic waves along the Earth's axis and in the equatorial plane by American researchers shows that perpendicular to the polar axis is the face and not the edge of the geocris- tall. This position in accordance with the surface git- tern in the center of the planet is occupied by the dodecahedron.

Giant crystal at the center of Earth

Recently, the research of American scientists seemed to put an end to the hypothesis that the shape of the inner core of the Earth is spherical. Because they drew the following conclusions:

1) Seismic waves from the "sound" of the earth pass through the earth's core faster when they run parallel to the earth's axis than when they run in the plane of the equator. The difference in travel time is 2 - 4 sec. Obviously, the earth core is not completely spherical or its properties differ in different directions.

2) Natural oscillations or circular frequencies of the Earth are split, i.e. instead of a series of individual tones, chains or closely connected pairs of frequencies are found. This is inherent in the anisotropic core,
i.e. its properties are different in different directions. Based on this, J. Tromp from Harvard wrote in 1994: "The shape of the inner core must be very unrealistic. It behaves like a giant asymmetric crystal built along the Earth's axis so that seismic waves propagate faster in that direction."

The analyses of J. Tromp are clearly consistent with the assumption that the inner core consists of iron in the high-pressure phase, in which the atoms are tightly packed into hexagons, since such a SIGMA phase is anisotropic.

No further comment. This confirms the hypothesis of the IDSE authors about the crystalline form of the inner core of the Earth, which was established 20 years before the work of J. Tromp. Some asymmetries of the geocrystal can be explained by the different growth rates of the subplanes and other reasons for this phase of its operation. The packing of atoms in hexagons can be considered as evidence for the general shape of a geocrystal in the form of a dodecahedron or icosahedron.

The difference in the time of passage of seismic waves clearly gives the dodecahedron the advantage of being at that exact position relative to the rotational axis of the Earth.

Prior to Tromp's report, according to the IDSE authors, the work of scientists had been

G. K. Yuri and S. I. Braginsky on the subject of kinematic models of the hydro-magne- tic dynamo.[8] the best way to recognize the actual functions of the inner core (a similar effect of a conventional dynamo with self-excitation). The Yuri hypothesis assumes that the growth of the earth's core is caused by the gravitational differentiation of iron. The author of the second variant, Braginsky, believes "that the engine of the Earth's dynamo is non-thermal in nature, releasing gravitational energy as it sinks a heavier and lighter buoyant matter into the Earth's core." In his opinion, the growth of the Earth's interior is currently continuing. Unlike the outer liquid core, the inner one is solid. During crystallization, light com- ponents such as silicon are emitted by iron. This indirectly expressed the opinion of a well-known magnetologist about the crystalline state of the inner core of the planet and its continued growth.

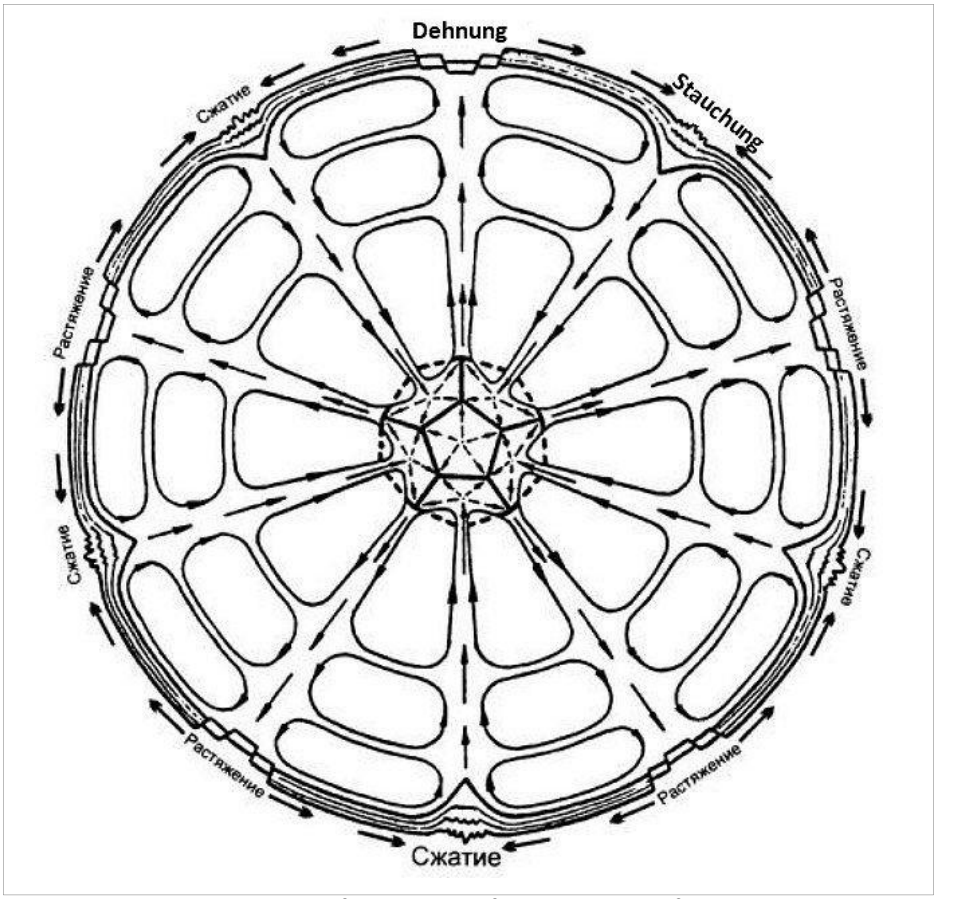
According to the ideas of modern science, the origin of the Earth's magnetic field is related to its outer core. Thus, in the book by V. V. Belousov:, "The Earth, its Structure and Evolution", it is stated that "charged electrons move in the outer core at a depth between 2900 and 5000 km, describing circles or loops, and this movement leads to the appearance of a magnetic field". More cautiously, this idea is expressed in BSE, where the formation of the planet's magnetic field is associated with "the complex motion of the mate- rial in the core during the Earth's rotation in the solar magnetic field."

8 *This is the reason for the existence of a magnetic field around the earth.*

All this correlates well with the IDSE theory, which also explains the reason for the motion of matter in the core. The geocrystal itself controls the vertical material currents "strung" along its long-range energy axes, emanating from the centers of its sub-surfaces and peaks. Its growth is due to concentration currents, supersaturated with iron atoms, descending to the centers of its partial faces. From its tops and edges, the already loosened substance, which left most of its iron in the melt of the outer core, rises floating to the boundary of the melt of the outer core with the mantle. Here results a si- gnificant differentiation of its density, after which its lighter part becomes embedded in the lower mantle and the ascending branch of the convective flow already in this becomes the shell of the planet and so on. The heavier part, which forms the upper horizontal branches of the convective cells of the outer core, moves towards the nearest descending branches, where it again differentiates, etc.

Of course, the differentiation of a moving substance occurs throughout the entire path of motion, but a qualitative change in the composition of the substance occurs only at certain thresholds, called transitional layers of shells. They should be characterized by the opposing horizontal motion of the substance of convective cells in the adjacent shells, probably with different velocities of motion due to the different density of the sub- stance of the shells.

Convection cells of each shell repeat the convection pattern of the previous one, while their size increases with increasing radius and thickness of the shell itself. Thus, each shell is driven by convection currents to assume the symmetry of its parent, the geocrystal, and there is a significant separation of matter by density at the boundaries of the shells.



The mechanism of movement of the substance of the earth.

These radial currents play the role of a driving belt for triggering loop currents in each shell of the planet, with the help of which the electric and magnetic fields of the Earth are induced in the outer core. In the upper mantle they participate in the mechanism of crustal motion. It also seems natural that the global network of descending matter currents, if it does not predetermine the formation of the planet's gravitational field, at least has a significant influence on it. Moreover, an increase in the activity of a growing geocrystal should lead to an increase in the planet's electric and magnetic fields. And vice versa.

There are several opinions concerning the functional range of convective cells. Some refer to the upper mantle (V. V. Belousov), others mainly to the lower mantle as well as to the outer core (E. V. Artyushkov), third to the lower and as a result to the upper mantle (L. N. Latynina),

fourth on convective cells - from the interface between the lower mantle and the outer core to the asthenosphere (O. Sorokhtin, A. Monin).

In the work of two scientists, employees of the Moscow State University, V. A. Alekseev and A. V. Getling, "On the Question of the Nature of Convective Movements in the Earth's Mantle" (1977), at the end of some calculations and ana- lyses there is a conclusion: "It is to be expected that under ideal conditions the boundaries of convective cells form a grid close to the grid of the dodeca- mer. The real picture of convection in the mantle may, of course, be distorted due to inhomogeneities of the material and temperature fields, as well as to the nonsphericity of the surfaces bounding the mantle."

Further developments in this field most likely convinced the scientists that the assumptions were correct, since they led to more ca- tegorical statements: "Convection in the Earth's mantle can cover the entire thickness of the Earth's mantle, and under ideal conditions the regular pentagon should be the most probable form of a convective cell in the plan. At the same time, the network formed by twelve such pentagons exhibits a sym- metry of the dodecahedron. It is to be expected that the substance rises in the periphe- nal parts of the cells and sinks in their central parts."

Lastly, one of the conclusions of geophysicist G. A. Kovalev: "The general static model of geo-fields is represented by the Platonic penta- gon dodecahedron or the double icosahedron."

Some scientists have already noted the possibility of the existence of subsystems in the convective cells of the mantle: "The vertical and horizontal dimensions of such small-scale convective cells are many times smaller than the thickness of the mantle, i.e., on the order of several hundred kilometers." And, "Observable, even smaller ring structures (tens of kilometers in diameter) can be associated with the excitation of convection currents on an even smaller scale."

The Earth's crust is the most heterogeneous of all the planet's shells and the crystallization field of the geocrystal within it already has a much weaker effect than in deeper shells. It is directly influenced by the energy frame of the underlying shell of the planet. Often the mantle matter is not introduced into the crust where its thickness is smaller, but on the contrary (e.g. in the Baikal region), i.e. where these areas are on the path of ascending matter currents, at the nodes or at the edges of a sphero-dodecahedron. An upward flow loses part of its energy when it is introduced into the cortex, and most of the substance is transformed into a horizontal, strictly directed motion by the opening of the petals of the bud.

On the other hand, on the surface of the planet sometimes the "smeared" centers of a number of phenomena observed. This is due to a temporary curvature in the lithosphere of an upward (or downward) flowing matter stream that does not break the cortical at the exit point of the energy axis, therefore the energy of the crystallization field is distributed in the form of the energy components of different fields. The shift of the upwelling mantle current probably occurred in the Indian Ocean. There are two cases of the inverse function of the edges (for example, in the west of the Andes).

The deep substance that penetrates the crust along the edges of the dodecahedron contributes to the transformation of vertical pressures into horizontal movements of crustal blocks toward the edges of the dodecahedron (this is a growth carcass, rift zones, and oceanic ridges) and toward the edges of the icosahedron (satellite framework, i.e., the food frame).[9]

9 *The image of "pentagonal plates" has a number of unexpected analogies. In the middle of the century in Europe were built pentagonal castles with bastions (for example, Pierpon, castles in Brest-Litovsk and Satanov) and monasteries (Holy Trinity Ipatievsky, Raifsky Bogoroditsky). And how can not remember the world-famous Pentagon building in the USA?*

Depending on the degree of accumulated pressure and the thickness of the crust, the latter accumulates energy or ruptures relatively quickly or bends gradually, which should eventually also lead to crustal breakthrough in these or nearby but less strong areas. Particularly vividly, one can imagine the result of upwelling in the oceans, where traces of their activi- ty are evident - the mid-ocean ridge. How these currents act on the oceanic crust, how pressure is transferred to the continents, is known today by the latest researches of tectonics.

The emergence of compression and stretching zones, the mechanism of pressure transfer by upward currents for horizontal movement of blocks of lithosphere and some other problems are in perfect agreement with the basic provisions of *"new global tecto- nics".* It is characteristic that the IDSE theory has a significant drawback of the
"new global tectonics" eliminated: the lack of a "motor" and a "drive belt" for the convection currents in the mantle. For without a functioning geocrystal and the ascending and descending currents it generates, which affect the substance of the shells at their upper and lower moving boundaries, the existence of closed currents of completely different matter is inconceivable.

The nodes and intersections of the edges of polyhedra on the Earth's surface are of great interest, along with oil and gas, as those areas under which the countercurrents of matter cross. Depending on the dominance of one or the other, the node must manifest itself differently.

In case of insufficient activity of the ascending IPSE node (which may be due to a slowdown in the growth of the corresponding geocrystal surface), the lack of energy may slow down the mass transfer process to downstream areas and delay the compensation of the mass absorbed therein. As a result, deserts appear in these places (for example Sahara, Tar). For the same reason, the destruction of forest heights occurs.

Where do the IDSE power axes end? Apparently there are no calculations of the dependence of the remote action on the length of the surface of a growing crystal, only the fact of such a dependence is established by the crystallo- graphy. It can not be excluded that this remote action goes beyond the limits of the youngest gaseous shell of the Earth, because the existence of all known shells is already determined by the function of the geocrystal. And all possible cosmic factors are modulators of its growth and thus determine the activity cycles of the IDSE elements and the whole pla- ne.

The evolution of the geocrystal

The IDSE theory speaks of the initial stages of the formation of the solar system and recognizes the validity of the Schmidt-Vernadsky hypothesis of cold adhesion of particles of an interstellar matter cloud. With the accumulation of mass due to cosmic dust and small meteoritic matter, the Earth has reached a certain size, its mass is larger than the critical one. Gravitational forces and exogenous processes compressed the substance of the planet and increased the density and temperature on its center, forming a melt of denser elements in the center of the future planet. The concentration of this melt began to correspond to the supersaturated state over time. In such a melt, as in usual crystallizations of a substance, nuclei of crystallization must have appeared with increasing concentration. They merged with each other and quickly tried to form a certain crystal lattice.

The mechanism of the formation of crystallization nuclei, as recognized even by leading crystallographers, is not yet precisely known. It is assumed that in a supersaturated melt (or solution), as a result of ab- rupt withdrawal of the system, at least one nucleus can be formed by a factor from the equilibrium state, the mass of which is more critical for a reverse transition to the molten state.

For example, for a melting inside the planet, such a factor may be the strong tidal wave of a cosmic event.

Further crystal growth generates ascending and descending flows of matter within the melt, which over time contributes to the emergence of similar flows and then convection flows within the next envelope of the planet. Descending currents most likely occur much earlier than ascending ones, which contributes to the predominance of gravitational compression processes in the early stages of geocrystal function.

The growth of the first crystal occurred at the expense of the influx of heavy elements into the supersaturated melt, which replenished it and continued to flow toward the center of the Earth. At the boundaries of the crystal lattice faces and the melt, due to the decrease in the elements required for crystal growth, the matter was decompressed. As it became lighter than the substance of the supersaturated melt, it rose to the Earth's surface. Thus, crystal growth occurred with the release of heat at the time of crystallization and the melting of light matter-fractions from the crystal grains toward the planet's surface.

Parallel to this process, under the influence of high temperatures, a natural decay of heavy elements occurred and chemical reactions took place. The resulting much lighter fractions, which naturally had a large volume, increased the pressure inside the planet. The planet began to crack to release negative pressure. Rising streams of decayed matter could not travel at random - their directions coincided first approximately and then more precisely with the directional projections of the partial faces of a growing crystal on the surface of the planet.

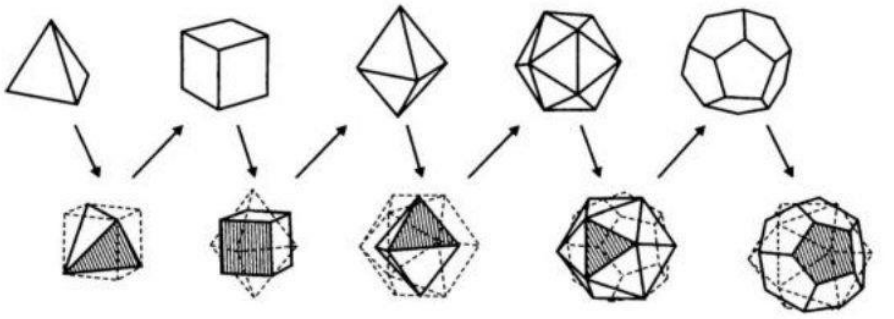
For the primary angular shape of the Earth, the simplest structure could be the first crystalline of the core tetrahedron formed 1 billion 800 million years ago in the Proterozoic. Until that time, the structural fields in Earth tectonics were distinguished by "amoebyl" shapes, by the complete lack of linearity. With the Proterozoic remained not only isolated traces of the "infancy" of the planet (for example, linearly extended zones of geological activity at the planetary level), but also the system of continents and oceans, in which many famous researchers quite naturally saw the outlines of the tetra- eder grid. Its peaks: the South Pole, the Rocky Mountains of North America, the Alps in Europe, the Himalayas in Asia. Its edges: South and North America, Africa-Europe, Australia-Asia.

The further development of the earth has already been determined by the overgrowth of its inner core from the shape of a tetrahedron to more complex forms - to the cube, to the octahedron, to the icosahedron, and to the dodecahedron, which moves ever closer to the sphere. The Earth's crust, like the entire face of the planet, simultaneously acquired ever new symmetries, with some of the energy axes of earlier polyhedra becoming part of the energy axes of those that followed, while others are now in a passive state or in a stage of destruction (for example, the underwater ridge 90° in the Indian Ocean). Therefore, the work of earlier researchers on the assimilation of the Earth to various regular polyhedra is not unfounded.

The beginning of each geological era was associated with the transition from one polyhedron to another. Each of these transitions was characterized by significant changes in the tectonics of the planet, which according to Y. M. Sheinmann
"indicates a fundamental change of the processes in the depth". Here is an illustrative example of one of the geological periods noted by G. A. Kovalev: "The change in the polarization of the geofields in the Paleozoic, which forms an angle of 45° to the plane of the meridians, established according to calculations and constructions, retains the position of the geographic poles, but replaces the P-I grid with P-II." In each age, the nature of global tectonic processes has not changed significantly.

Entwicklungsstadien des Geo-Kristalls

Zeitalter	Beginn Mio. Jahre zurück	Geo-Kristall	Anzahl Kanten	Innen-Gitter
Proterozoikum	1800	Tetraeder	6	Tetraeder
Paläozoikum	570	Kubus	12	Oktaeder
Mesozoikum	230	Oktaeder	12	Ikosaeder
Kainozoikum	67	Ikosaeder	30	Dodekaeder
Unsere Zeit		Dodekaeder	30	Ikosaeder



(Jede neue Ära ist dreimal kürzer als die vorherige, die Form des Geo-Kristalls nähert sich immer mehr der Kugel.)

By the way, the development of ancient Greek ideas about the four stitches by Plato is very interesting. He attributed the elements fire, earth, air and water to the forms of the tetrahedron, cube, octahedron and icosahedron, which can be compared with the sequence of the development of the geocrystal form and the whole planet. The remaining "unused fifth polyhedron, the dodecahedron", corresponds in his thoughts to the outlines of the universe.

According to today's scientific opinion the era of the Cainozoic ended some thousand years ago. The new geological stage was given by the transformation of the geocrystal from the icosahedron form into the dodecahedron form. It becomes in the mechanism of the movement the earth matter as a result of the "Transformation" entered the functions of the icosahedron and the dodecahedron lattice: Growth functions became the framework of nourishment and vice versa. The foci of ancient cultures and civilizations that flourished in the ascending nodes were downward and eventually died.

Where can archaeologists find the majestic traces of these civilizations on earth today? In the Tar Desert, near the Indus River, lie the remains of the proto-Indian civilization of Mohenjo-Daro and Harappa; near the Igidi pla- teau (Algeria), in the northwest of the Sahara, the center of the mysterious Berber Tuareg civilization lies buried under the sand. Under water, near Easter Island, there is the continuation of roads and rows of stone ido- lites leading to the sea (apparently one of the local legendary names of the island is translated as "Great Land" not without reason); finally, the remains of cyclopean stone structures of the civilization north of the Bahamas, not completely covered by the ocean. On top of that, it is conceivable that the mythical homeland of the Ainu, "drowned" in the modern "Devil's Sea" (so called by the Ainu themselves), sank in the south of Japan.

Thus, the IDSE is young in geological terms, the formation of its structures is still proceeding, and its dynamics must be taken into account. Only at the end of the current geological epoch the formation of crustal blocks in 12 tectonic plates will be completed.

At the beginning of the active geocrystal, a predominant compression of the planet occurred and tensile energy accumulates due to the emerging currents of ascending matter. In the next phase of growth of Earth cristals "breakthrough" of the cortex with ascending matter currents begins and gradients of magnetism increase along the bands of ascending matter currents.

Thereby there is a shift of the magnetic axis of the earth. Thus, the beginning of the next "migration" of the magnetic poles of the Earth is given, activates the expansion process of the planet. In the course of time, the exhaustion of the melt by the elements necessary for the growth of the geocrystal is faster than the restoration of its concentration, which is facilitated by the increasing size of the same. In this process, the surface of its areas requires an ever-increasing influx of "building material". The predominance of the mass of the ascending flows over the descending ones begins,
i.e. the expansion prevails over the compression. The planet seems to
"explode" - is the apt expression of the proponent of the hypothesis of the
"expanding earth," I. Kirillov.

Each functioning phase of the geocrystal left the increasingly complex geometry of the planetary crust. When the processing of the melting material ends, the growth of the geocrystals also ends, the tensions decrease and the process of planetary activity disappears. In the epochs of inter-crystalline systems, the glaciers advanced, the atmosphere is de-compressed and the forces of gravitational compression prevail. It is possible that the rhythm of the development of the geocrystal depends partly on constantly acting exogenous factors, which are cyclic in nature.

The preservation of the elements of former geometries of the Earth's upper shell - a tetrahedron, a cube, an octahedron - testifies to the prevailing expansion process of the planet. Otherwise, the movement of the crustal plates without increasing the Earth's radius would lead to an irreversible violation of the sym- metry of the plate position of the consumed systems. Based on the mass transfer schemes for each polyhedron, it is possible to consistently calculate the position of the continents for each geologic age, including the original one-continent Earth model.

Chapter 4
The Lattice Structure of the Universe

Energy scaffolds of the space

Crystal-like symmetry elements are characteristic not only for the Earth, but also for the Sun, Venus, Mars and the Moon. One can assume that the energy framework is inherent to all objects of the world space. The famous Russian crystallographer I. Shafranovsky came to the same conclusion: "Before us a kind of general law of grouping of material aggregates manifests itself in nature in the form of critical parallels."

On the Sun, sunspots are often grouped in belts of about 30 degrees latitude on either side of the solar equator, i.e., as in belts from the edges and vertices of the icosahedron. There are other da- tes that reflect the frame order of the Sun, for example antipodal spots.

When the images of Venus from the interplanetary stations of the Soviet "Venus" appeared, the IDSE authors saw on the surface of this planet several U-shaped formations and other elements, which together also seem to form fragments of the energy framework. On Earth the relief breaks down quickly, but on Venus the situation is unique - almost unchanged is the direct tectonic-magmatic relief, the chemical composition of the surface is characteristic of basalts. In terms of volcanic and especially tectonic activity, Venus is comparable only with Earth and differs from the Moon, Mercury and Mars. On Venus, stacked tectonic scales and folds are visible, which are the result of horizontal compression.

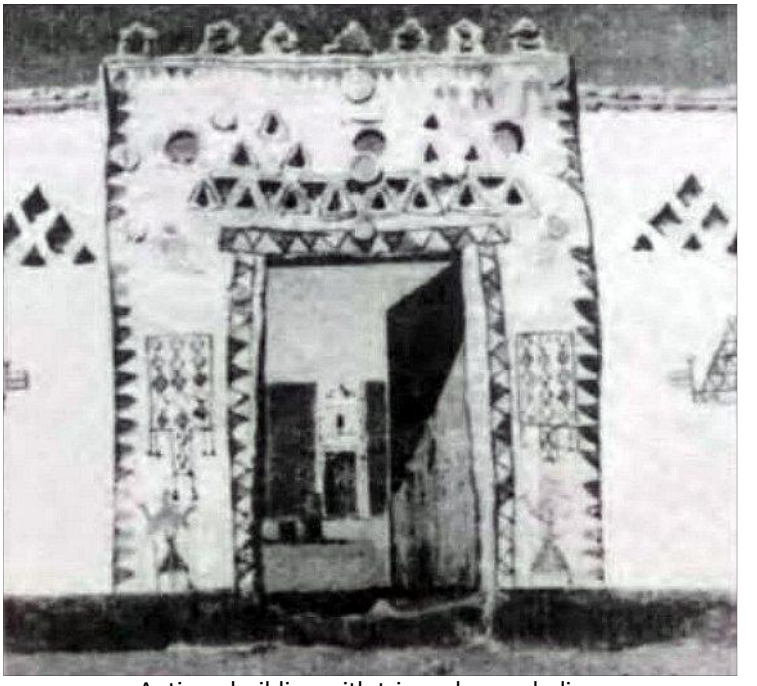
There are also areas where the surface is stretched, and a rectangular system of dips that have formed there. Interesting ovoid formations have been discovered on the surface of Venus. These are very large ring structures that have developed on volcanic plains and resemble in some ways the large ring structures of Earth.

The elements of the energy grid can also be seen on Mars, these are its famous "channels". Some of these "channels" form huge spherical triangles on the surface of the planet, others are equilateral, with nodes at the corners, i.e. they resemble the energy grid of the Earth.

For example, the amateur astronomer M. Shemyakin spoke about the orderliness of the lunar relief. In the seemingly chaotic mess of annular mountain craters, fancy ground folds, cracks, and all the ridges, one recognizes some patterns. For example, a geometrically correct pattern of cracks in the Hevelii crater and the regular arrangement of chains of lunar craters where, as they pass from one crater to the next, the area is bisected or quartered and the distances between their centers also decrease regularly, the centers themselves lying on an arc of a circle or describing an arc-like curve nearby (similar relationships turned out to be characteristic of some terrestrial volcanoes). M. She- myakin sees the causes for such geometrism in volcanic pro- cesses, fractures in the lunar crust and meteorite impacts.

The sculptor V. Kabachenko also studied energy cages in nature and discovered the "integration effect": the deep structure of the Earth's lithosphere sometimes seems to manifest itself in a series of loose rocks and is even reflected in the structure of clouds, which form frame grids of various sizes. In circumpolar regions, cracks in the ice cover also form a regular network. In some satellite images of Earth, the structural network seen in the planet's cloud cover is quite similar to Martian channels.

Autoren-Trio von links nach rechts: W.S. Morosow, N. F. Gontscharow, W. A. Makarow, Foto von 1974

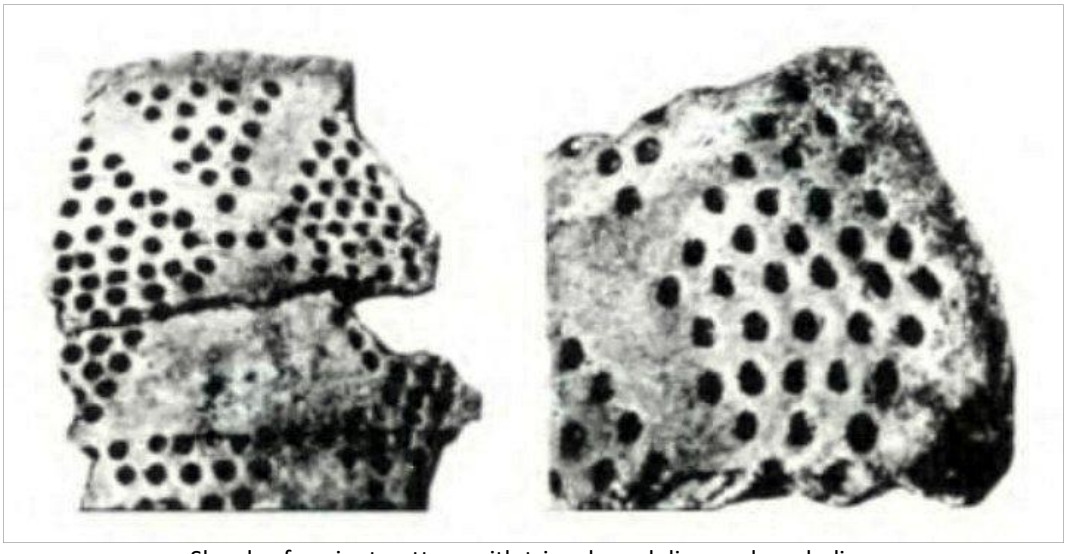


Antique building with triangular symbolism

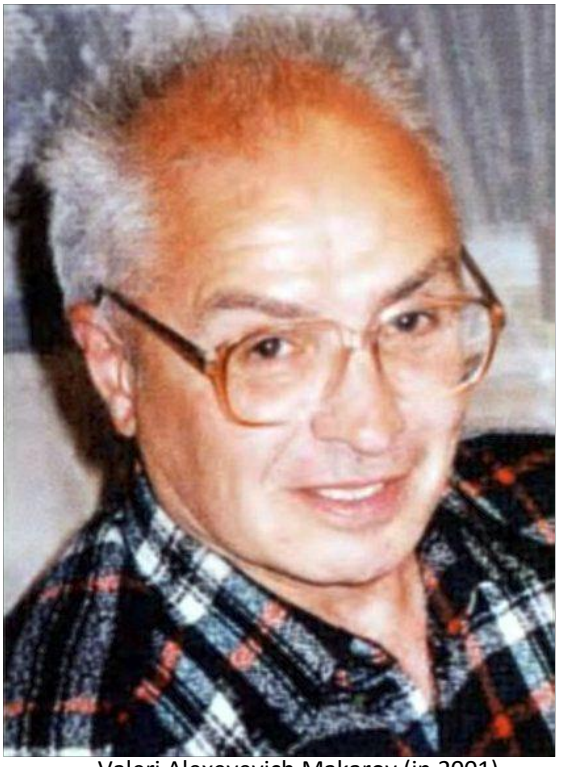
Headdress with triangular symbols.

Head of Sargon, tsar of Akkada,
ruled in the middle of the 3rd century
before Christ (copper statue)

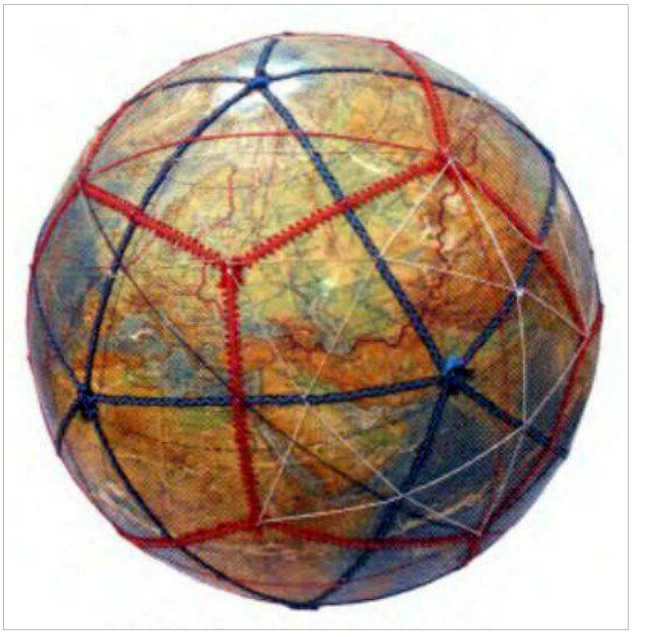
Stone statue, goddess Okutsuchime-no-
Mikoto (Japan)



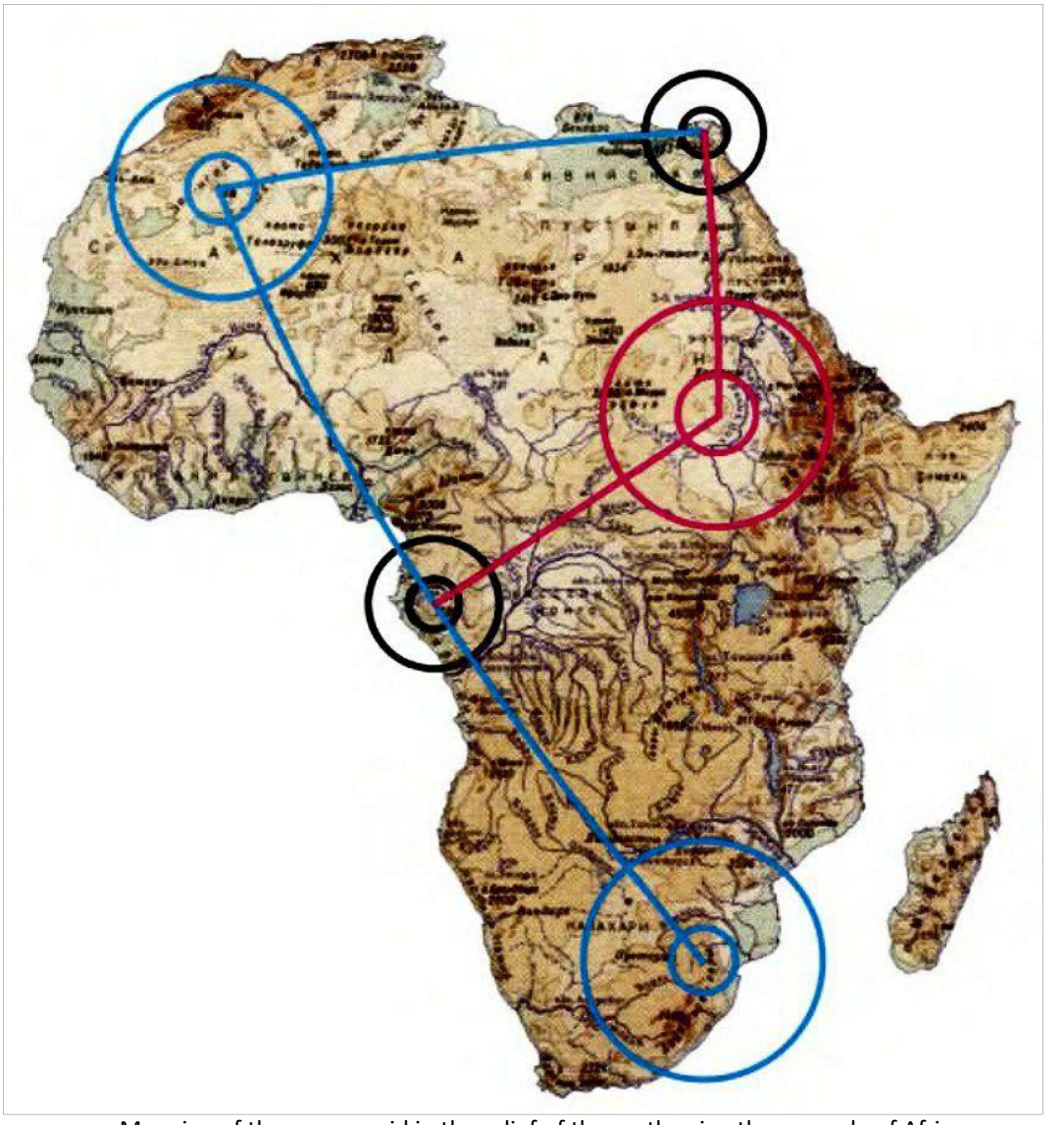
Shards of ancient pottery with triangle and diamond symbolism



Valeri Alexeyevich Makarov (in 2001)

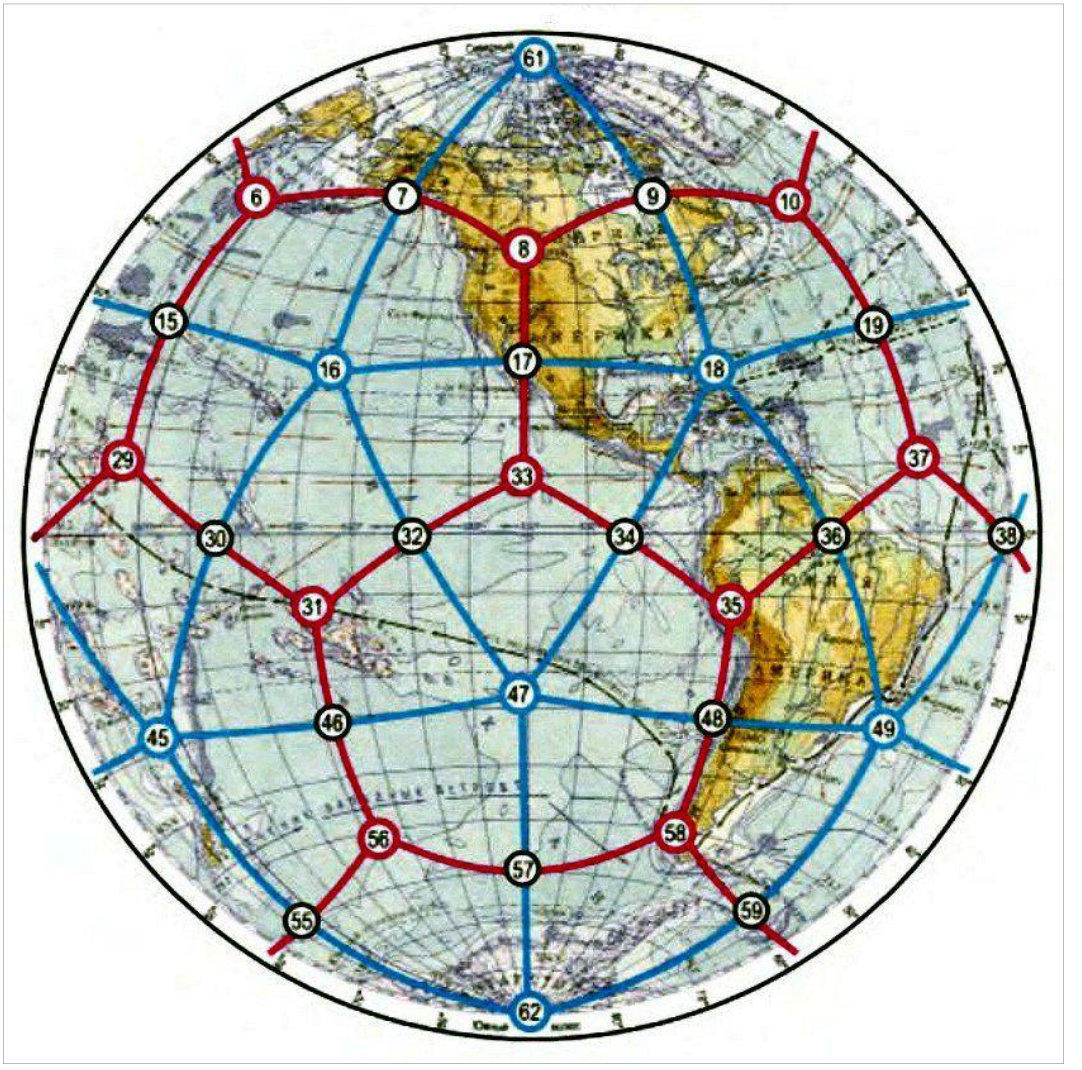


Researcher work globe

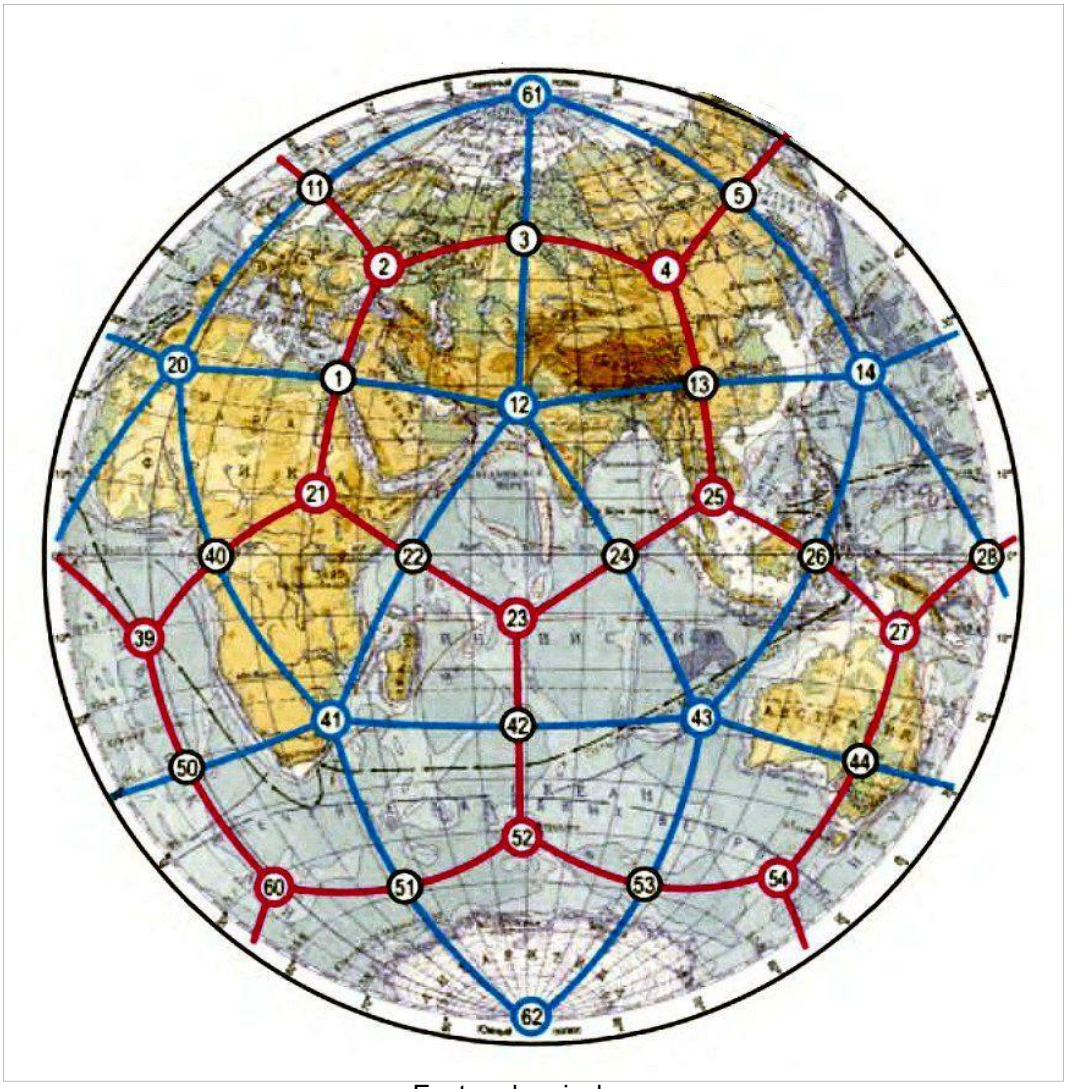


Mapping of the energy grid in the relief of the earth using the example of Africa

IDSE card

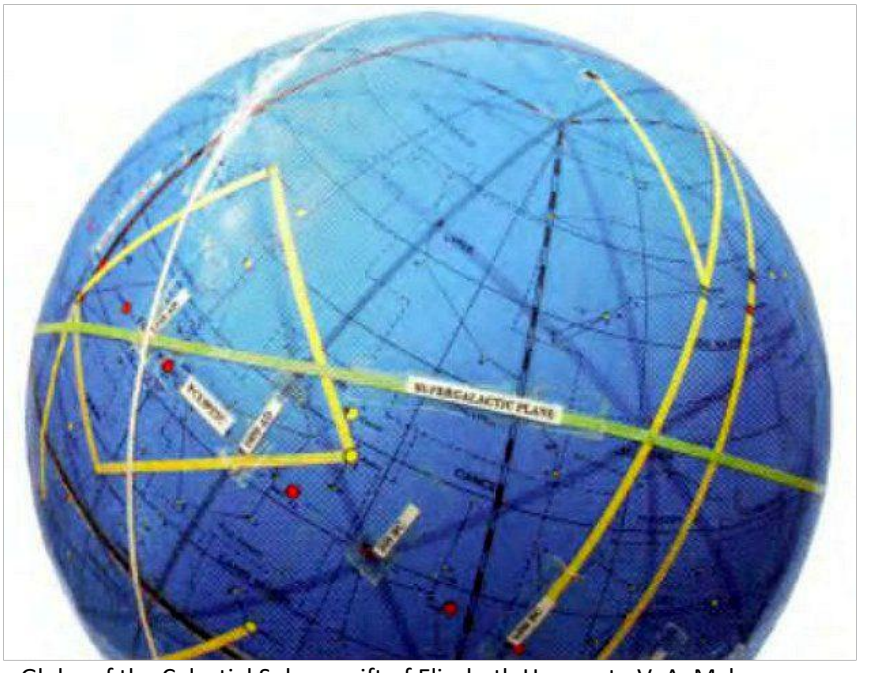


Western Hemisphere



Eastern hemisphere

Elisabeth "Bethe" Hagens



Globe of the Celestial Sphere, gift of Elisabeth Hagens to V. A. Makarov

And this comparison is not accidental. Images of Mars taken by the Mariner stations show that its relief is bound by the same grid as Earth's reli- ef. Moreover, in one of the images in which Martian clouds were captured, a direct link between cloud formations and a regular structure of the Martian surface is evident. The structural network is also seen in the images of solar flares. V. Kabachen- ko sees the reason for such an order in electrostatic fields.

Energy cages are found not only on the surfaces of planets, but also in the structure of stellar systems. For example, in the Trifid Nebula, which has a diameter of 30 light-years, a system of triangles of a spherical icosahedron with separated elements of a sphero-dodecahedron is well visible. It is assumed that this nebula is something like an "incuba- tor" of stars: Cosmic dust shrinks into the nodes of this galaxy and heats up to the state of stars there.

Astronomers are aware of the so-called interacting galaxies, which are grouped together and separated by millions of light-years of
"tails" and "bridges" are connected to each other, and make mathematically sound hypotheses about the "laying" of galaxies in giant cells. About 70% of the mass of all galaxies, which are grouped into dense systems at specific locations, are concentrated along the cell edges. Galaxies are placed like at the edges, faces and vertices of polyhedra with a size of about 200 million light-years. The currently held theo- ry of galaxy formation during the scattering of matter after the Big Bang obviously cannot explain the emergence of such a structure.

The Swedish astronomer Hane Alven writes:

"A new picture emerging from recent cosmic discoveries is that the magnetosphere and space are not filled with a more or less uniform substrate at all, but have a cellular structure in which there are discontinuity planes dividing space into many mutually isolated regions, cells.

The values for magnetization, electric potential, density, and temperature often differ greatly on opposite sides of such a surface. There is no reason to believe that such structures should be limited only to the areas our spacecraft can now penetrate."

It seems that the whole universe is permeated by energy fields of different order. All elements of the universe are energy nodes on different levels and the connecting lines are energy channels of different strength, which unite the entire diversity of life in the universe in a single system. The planet Earth, which is at the same time a grid node of the universe, has itself an energy framework with a hierarchy of subsystems of different order.

V. B. Neyman's thoughts on space energy grids are interesting. In his opinion, there are probably certain
"control pulses" that coor- dinate the actions of individual connections of the lattice. At the nodes where three signal groups cross - electrostatic, magnetic and gamma-polar - substance is probably present. Depending on the "order" of the frame, different point formations are born - planets, stars, galaxies. The possibility of a "birth out of nothing" (of course in reality due to energetic forms of matter) has already been predicted theoretically. If this is so, then undoubtedly also the reverse process takes place - the disappearance of matter in
"black holes."

VB Neyman also believes that the upward evolution of matter, the general way of transformation of elements on Earth, is consequential:

$$^{14}N >^{28} Si >^{56} Fe >^{112} Cd >^{224} Ra,$$

i. e . , to double the atomic weight in precisely defined periods of time.[10]

10 *Although it should be noted that another radium isotope is more stable and widely distributed in nature -* ^{126} *Ra.*

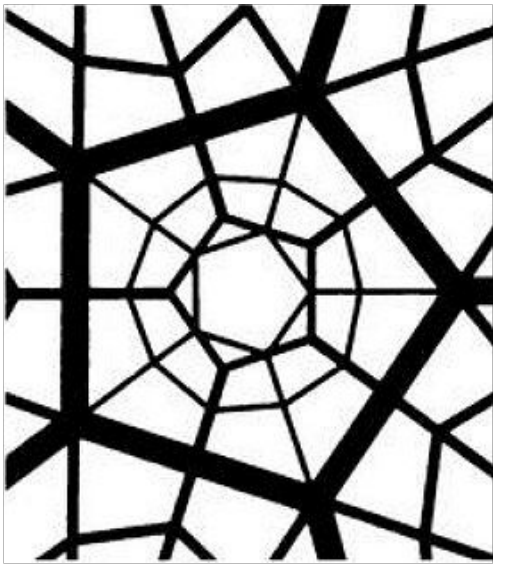
In other words, the manifestation of regularity affects not only space, but also time (which, by the way, is quite natural).

Obviously, the birth and development of an object, be it an object of the microworld, a planet, a star or a galaxy cluster, actually happens in accordance with the energy framework that in newohnt this object. Finally, the energy lattice in the form of a regular polyhedron is a kind of quasi-crystalline structure; from an energetic point of view, the crystalline aggre- gate state is far more advantageous than the amorphous, disordered state. Probably space objects are ordered just because of the striving for the most stable energy state.

More recently, in 2003, data were published from the American space probe WMAP, launched in June 2001. It revolves around the Sun at a distance of 1.5 million km from Earth, so the planet shields it from the Sun's rays. The probe measures the temperature fluctuations of the microwave background radiation with high accuracy (these fluctuations store the memory of the early stages of the life of the univer- sity and depend on its geometry).

The analysis of small-scale fluctuations seems at first to confirm the hypothesis of an infinite universe, but on the large scale (more than 60 degrees in the celestial sphere) the fluctuations practically disappear and this distribution of fluctuations suggests that the dimensions of the universe seem to be relatively small and that space is self-contained. That is, the universe has no edge as such, and a ray of light propagating in space must return to its exit point after a certain long period of time. If this is true, astronomers on Earth, for example, can observe the same galaxy in different parts of the sky, and the universe is a kind of mirror space in which each object has many mirror images.

Theoretically, the image of our galaxy and even the solar system can be found, but given the finite speed of light and large distances, this image is probably very outdated and it is impossible to identify modern objects in it.



The results of the computer simulation show that the universe is a collection of infinitely repeating dodecahedra, the WMAP data confirm this without fitting such a geome- try,[11] and this does not contradict Einstein's general theory of relativity, which does not allow for only a flat, level, infinite universe. However, some experts are skeptical of this interpretation of the data, and later studies could possibly confirm or refute this hypothesis.

Kepler's unnoticed discovery

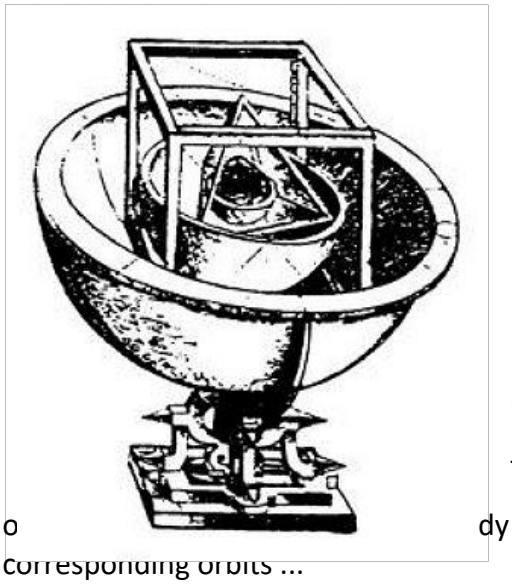
On July 9, 1595, a great discovery was made which, to our great regret, has not yet been realized by mankind. Its author, the great German astronomer of the late 16th/early 17th century, Johannes Kepler, is famous for his later discoveries of the laws of planetary motion. These laws, together with the law of the world-famous I. Newton the basis of celestial mechanics, which studies the motion of the bodies of the solar system.

11 Plato also gave the universe the shape of a dodecahedron ... Elisabeth Hagens, an American collaborator of Goncharov-Makarov-Morozov, is now mainly concerned with the space grid and the analysis of ancient cosmology. Some of her articles can be found in Appendix 4.

However, the author himself considered his very first discovery, not yet generally recognized, as the main work of his life. Kepler as a real scientist did not get enough of speculative conclusions about the harmony of the universe; as a supporter of the ideas of Pythagoreanism and the Copernican heliocentric model of the solar system, Kepler established a numerical and geometrical relationship between the distances of the planets from the Sun and the size of regular polyhedra.

> Another interesting work of Johannes Kepler is the philosophical and autobiographical story "The Dream", which was published only after his death. In this work dedicated to the moon, a lot of riddles are encoded. In a footnote he writes: "The lunar astronomy described by me in this book occupies a somewhat unusual position, since the observer sits, as it were, on the moon", and in one of the letters Kepler exchanged with a close friend, he himself saw lunar settlements ... It is quite clear that Kepler's mother was a clairvoyant, and it is possible that Kepler also "visited the moon" after appropriate training. The manuscript of the story "The Dream" was stolen from Kepler, the Inquisition arrested his mother Catherine and accused her of witchcraft; however, she was not sentenced to death, as she herself was already on the verge of natural death. Kepler, however, continued to suffer: he was deprived of the high position of a court astronomer, which led to his impoverishment and premature death.

The discovery was based on the observed fact: Around the Sun at that time six planets were known (from Mercury to Saturn) and of course five gaps between them, into which, as intuition suggested, all five re- gular geometric bodies could fit. The following order suggested itself: The sphere of the planet is an engraved polyhedron, the next sphere, and so on. The conjecture required a check of the calculations, but for some reason Kepler had a deep confidence in the truth of his insight. Thus he himself testifies the happy time of the discovery:



"Although I had no clear idea of the order in which the correct bodies should be placed, I was so successful in their positioning [...] that I did not have to change anything when I checked them later. Now I no longer regretted lost time and was no longer afraid of calculations, even if they were difficult. I made calculations day and night, which either confirmed the coincidence of my ideas with the Copernican orbits or dispelled my joy by the wind.

... After a few days everything was in o dy after another ... exactly between the corresponding orbits ...

The distances between the orbits of the planets were so measured by Kepler that all five polyhedra lay into each other like the [Matryoshka] dolls: the sphere of Saturn - engraved the cube - engraved in it the sphere of Jupiter - engraved the tetrahedron - engraved in it the sphere of Mars - engraved in it the dodecahedron of the terrestrial sphere - engraved the icosahedron - the sphere of Venus - engraved the octahedron - the sphere of Mercury. Satisfaction with the discovery was reinforced by the fact that the entire model had a single center, the Sun, which confirmed the correctness of the Copernican theory adopted by Kepler. (Note also that the dodecahedron is engraved around the Earth's orbit and the icosahedron within it. It turns out that the dodecahedron of the geocrystal is in the quasi-crystalline field of the solar dodecahedron!)

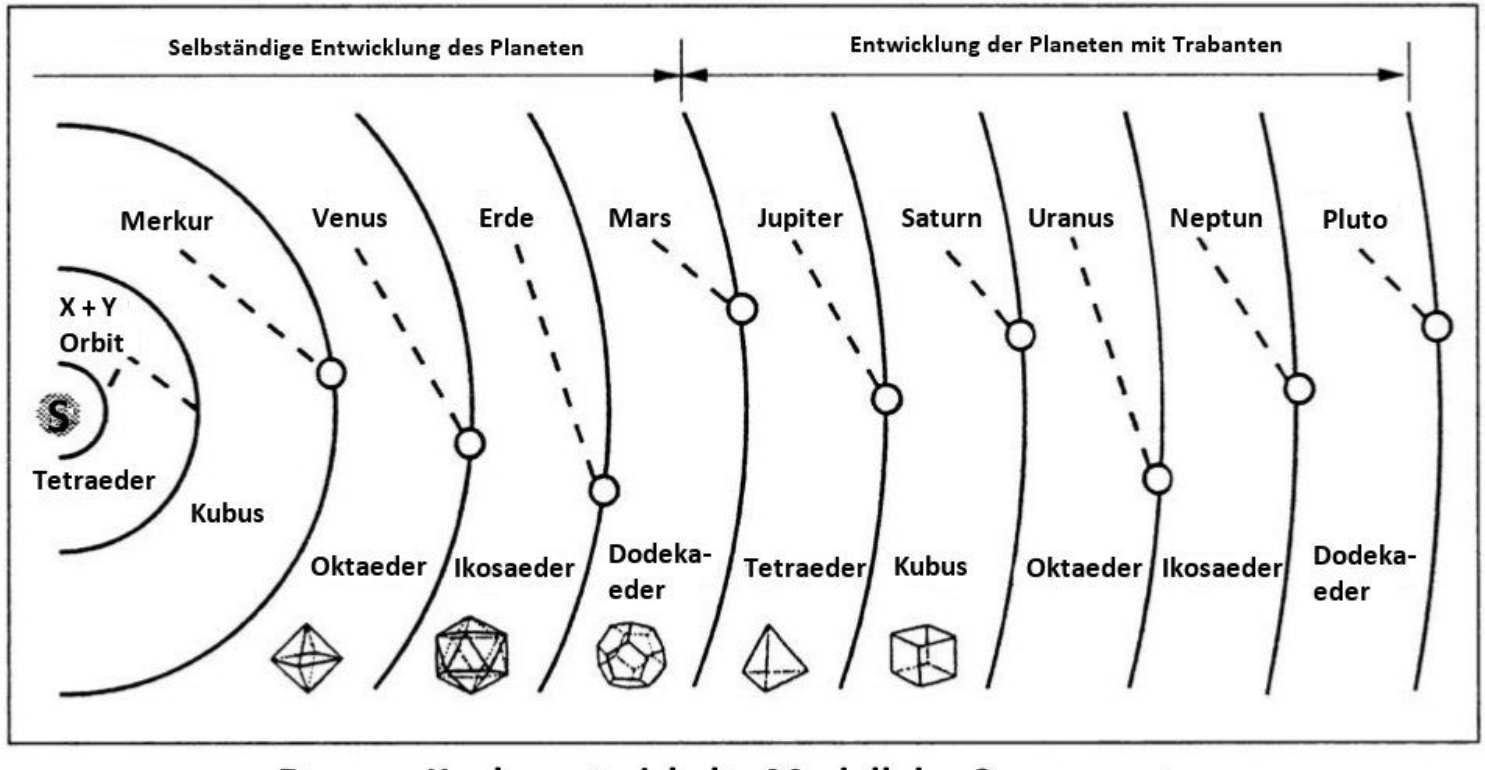
However, the further development of this ingenious idea of Kepler was "delayed" by exactly 400 years. Perhaps the discovery was so untimely at his time that it remained a fragment, although it was already relatively complete for the accumulated knowledge about the solar system. In fact, this discovery was considered wrong until recently.

Thus, the TSB reports that in 1596 Johann Kepler "published his first major essay, 'The Secret of the Universe' ... in which he attempted to establish a numerical relationship between the distances of the planets from the Sun and the size of regular polyhedra. This book has no scientific value ..."

And here is a more recent link: "In 1596, after doing an enormous amount of computational work and testing hundreds of variants, the unknown twenty-year-old mathematics teacher Johannes Kepler published the formula for his discovery in the little book 'The Secret of the Universe' ... Today, when three more planets of the solar system are discovered, the mysterious connection between planetary distances and the properties of regular polyhedra breaks down completely; the Kepler model can no longer serve as a graceful exercise on stereometry." (A. V. Voloshinov. "Pythagoras, Unification of Truth, Goodness and Beauty" 1993.)

So, did Kepler "try to establish a numerical relation between the distances of the planets from the sun and the size of the regular polyhedra" or did he establish it? And did the "mysterious connection [...] break completely" after the discovery of three more planets? In the natural science subjects it is a criminal sin to evaluate facts from scientific works with categorical conclusions, since the authority of a scholar or a tangible book (especially a scientific reference book) can have a kind of hypnotic effect that inhibits questioning thoughts or and in this way prevents the development of science.

Fact is, that if you calculate the "added" space of "post-Kepler" planets, Uranus, Neptune and Pluto, with the method of Kepler himself, you find two complicating field sets with the distance from the sun: from the tetrahedron to the dodecahedron, without disturbing the correct order (see picture on page 104). In the following tables this fact is represented mathematically.



Das von Kepler entwickelte Modell des Sonnensystems

Table 1:

Planet	**Mean distance from the sun astronom. Unit[12]**	**Million km**	**fitted into the sphere**	**Enveloping the sphere**
Mercury	0,38710	57,91		Octahedron
Venus	0,72333	108,21	Octahedron	Icosahedron
Earth	1,0000	149,60	Icosahedron	Dodecahedron
Mars	1,52369	227,94	Dodecahedron	Tetrahedron
Jupiter	5,20280	778,30	Tetrahedron	Cube
Saturn	9,55447	1429,30	Cube	Octahedron
Uranus	19,21814	2875,03	Octahedron	Icosahedron
Neptune	30,10957	4504,40	Icosahedron	Dodecahedron
Pluto	39,43870	5900,00	Dodecahedron	

Table 2:

Regular polygon	**Number of edges**	**Radius of the perimeter circumscribed --- inscribed**		**Ratio R/r**
Tetrahedron	4	$\frac{a\sqrt{6}}{4}$	$\frac{a\sqrt{6}}{12}$	3
Cube	6	$\frac{a\sqrt{3}}{2}$	$\frac{a}{2}$	1,732
Octahedron	8	$\frac{a\sqrt{2}}{2}$	$\frac{a\sqrt{6}}{6}$	1,732
Icosahedron	20	$\frac{a}{4}\sqrt{18+6\sqrt{5}}$	$\frac{a}{2}\sqrt{\frac{25+11\sqrt{5}}{10}}$	1,260
Dodecahedron	12	$\frac{a}{4}\sqrt{10+2\sqrt{5}}$	$\frac{a}{12}(3+\sqrt{5})\cdot\sqrt{3}$	1,260

12 *The astronomical unit is the mean distance of the Earth from the Sun (149.6 million km).*

Table 3:

Planets	**Ratio of the radii of the orbits of the planets**	**Body**	**Ratio R/r**	**% of the excess of the real ratios R/r**
Saturn/Jupiter	1,836	Cube	1,732	+6,00
Jupiter/Mars	3,415	Tetrahedron	3,000	+13,83
Mars/Earth	1,524	Dodecahedron	1,260	+20,95
Earth/Venus	1,382	Icosahedron	1,260	+9,68
Venus/Mercury	1,869	Octahedron	1,732	+7,90
Uranus/Saturn	2,011	Octahedron	1,732	+16,11
Neptune/Uranus	1,567	Icosahedron	1,260	+24,37
Pluto/Neptune	1,310	Dodecahedron	1,260	+3,97

Based on these data, we can draw the following conclusions:

1. Johannes Kepler really discovered the connection between the distance of six planetary orbits with five regular polyhedra inscribed in their spheres and the Sun.
2. One can speak about the existence of at least two series of pla- nets at a distance from the Sun according to the revealed law: a fragment of a correct sequence, corresponding to the complex of regular polyhedra, from Mercury to Earth, and the complete group of the second sequence from Mars to Neptune, that is, from the tetrahedron to the dodecahedron.
3. The law does not exclude the possible presence of unplanned planets before Mercury and after Pluto: It is possible to predict the existence of orbits with a cube and a tetrahedron inscribed in their spheres before Mercury, and after Pluto there is a complete series starting from a tetrahedron. Calculations of these orbits to Mercury suggest possible distances of hypothetical planets within 0.1676 + 0.2146 A.E. (average 0.1911 A.E.), of 0.048 + 0.064 A.E. (average 0.0547 A . E .) and after Pluto - average 135.45

a.E., 268.5 a.E., 532.5 a.E. and 768.5 a.E.[13]

4. A small percentage of the actual orbital distance exceeding the calculated one for the corresponding polyhedra may indicate that all planets are located at the very beginning of the next spherical belt for inscribed and circumscribed polyhedra. Most probably these belts are energy belts, like the orbits of electrons around an atomic nucleus. The "additional" percentages seem to be either the thickness of the corresponding orbital spheres in which the planets themselves are packed, or the gradual distance of the planets from the sun before they "decay" in other orbits, while the transition to the volumes of the new "fresh" quasi-crystals should be the same for all planets of the solar system.

5. There are initial observations that may be characteristic of the planets that are in these grids. For example, in the icosahedral framework zones of the planet rotate in the opposite direction (Venus and Uranus) in contrast to all other planets whose rotation is in the same direction as the planets themselves move around the Sun. It follows that the transition to and the exit from this zone may have occurred with a 180° rotation in a relatively short time by geological standards. It is possible that floods, changes of direction of ocean currents and a variety of global catastrophes reflected in ancient myths (especially the death of Atlantis) are associated with such a "somersault" of the Earth in space. Not for nothing it is said that the Egyptian sages told Solon (the teacher of Plato) that a change of the sunrise on the Earth took place twice: it rose twice where it came in and vice versa. It is surely not a coincidence that the asteroid belt is located exactly in the 2nd tetra-

13 *Before Mercury, some researchers propose the existence of a hypothetical planet Vulcanus with an average distance of 0.24 AU from the Sun, although it has never been discovered (at the current state of astronomical technology, this would be easy to do). If it exists, this is only a fictitious planet used in the theoretical constructs of astrologers. Even closer to the Sun, at a distance of 0.019 AU, the existence of a belt of cosmic dust is assumed. And at the edge of the solar system, beyond the orbit of Neptune, the Kuiper belt, predicted as early as 1952, was discovered in 1992, a whole swarm of small cosmic bodies. Astronomers are skeptical of the possibility that the undiscovered major planets of our solar system are in this belt or even farther from the Sun.*

edrical energy zone - in analogy to the 1st tetrahedron zone, where the planet is born from condensed protoplastic matter (i.e. the inner core of the planet is formed and starts to shape the plane into the form of a tetrahedron). If the planet itself is evolving along with its satellite family in the first five energy zones, then this will happen in the next five. Under this point of view the capture of the moon as a kind of earth-satellite does not seem to be a natural fact. Pluto, which is already outside the 2nd group of planets, is most probably a representative of a completely different planetary formation, and it is no coincidence that since then there is talk about depriving Pluto of the "status" of a planet. In many of its properties it is closer to the Kuiper Belt asteroids.

6. according to the Curie-Shafranovsky principle of interaction between crystal-forming medium and crystal, the structuring of the planetary substance on each planet runs like the symmetry of the pseudo-crystalline framework of the corresponding energy zone of the solar system. The outer energy field contributes to the fact that the inner core of the planet - its crystalline heart - is "started" and functions in the same symmetry and manner as the field itself.

So, the structure of the solar system is much more complex and organized than previously thought. It is possible that on the level of planetary orbits it is very similar (if not identical) to the structure of the atom, which according to our modern concepts is still very simple and therefore needs to be reconsidered.

Chapter 5 Man and Earth

Valery Alekseevich Makarov worked on the materials contained in this chapter during the last years of his life. In part they were published in published in the journal Delphis in 2003 - 2004.

Man and earth in constructions of general numbers

Every element of the biosphere and especially the human being is inherent in the bio-energetic framework of energy, which is probably the result of the symmetry effect of the energy grid not only of our planet, but also of the space. Photographs in the high-frequency currents of plant fragments and of man (according to the method of the Kirlian couple) made it possible for the first time to recognize the contours and nodal points of the energy skeletons of living beings. I wonder how the ancients came to this knowledge, who used these nodes for the acupuncture method - the oldest acupuncture method of the human body.

The story of the discovery of the Kirlian effect is as follows: Semyon Davidovich Kirlian (1898-1978), a genius inventor, worked as an electrical equipment repairman at Krasnodar City Hospital in 1939. Once he was repairing a physiotherapeutic device with high-frequency current and noticed a strange pink glow between the electrodes. Semyon Davidovich decided to cancel this glow on the film by placing an object in the current field. The first object was a coin; the photo showed a discharge sliding along the edges. Further, the inventor began placing and photographing many other objects in the field, including those from the animal world, and he noticed that living objects had a different glow character depending on their condition. For example, different "pictures" gave the leaf of a tree after only one hour. There was a distinctly different glow of the hands, the

after whether a person was healthy or sick. In these experiments, his wife Valentina Khrisanfov gave great help to Semyon Davidovich.

In our country, this invention was once classified as secret, but after the brochure of the Kirlian spouses was cancelled in 1957, it aroused great interest abroad - in the world of miraculous discharges. Later, the Kirlian method was improved and now it can be successfully used for the early detection of various diseases, for evaluating the effectiveness of medicines, as well as for other scientific experiments. For example, it was noticed that plants even react to the thoughts of a person standing next to them. The German scientist and physician P. Mandel discovered a connection between the gas discharge glow of a person's arms and legs and the condition of acupuncture points on them. In Russ- land, the invention of Mr. and Mrs. Kirlian was ignored for a long time and they died in poverty.

The work of the geocrystal with a growth framework (repeating the shape of the "El- tern dodecahedron") and a nutritional framework (icosahedron) is accompanied by the mutual exchange of matter through 32 radial channels (12 descending and 20 ascending) and 64 main nodal centers: 32 peaks of the superficial framework correspond to 32 activity centers of the geocrystal.

As you can see, the numbers 32 and 64 underlie the main structures and processes of our planet. Another important point is the center of the geocrystal, which is also the center of the whole earth. It contains the beginning of its crystallization and is the source of the ordered life of the plane. The center of the monolithic earth core does not belong to any other layer of the earth, including the human world in the surface shell of the plane.

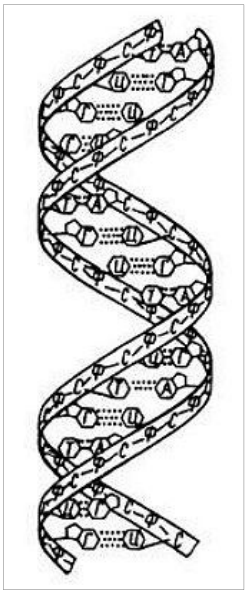
This is another, the 33rd point of the geocrystal with different uses and properties - compared to 32 points of its surface.

Thus, with the number 32 we identify our world and with the number 33 the geocrystal. It is characteristic that in full accordance with the numerical side of this dynamic the initial processes of human life are synchronized, so to speak: In the course of its formation, education and development, a human being inherits the most important numerical characteristics of its environment. Moreover, the extraordinary significance of these numbers was somehow understood in ancient times and literally modeled in the form of "strange pre-memories" or used for divination exercises in the form of early chess and in the "Book of Changes" ("I Ching").

According to this, the development process of a fertilized egg begins with its splitting. The original cell and its derivatives, blastomeres, are divided alternately into two halves, either vertically or horizontally. Until their quantity becomes equal to 32, they do not grow. When they become 64 (32 + 32), a cavity is formed in - nside the oocytes, all 64 blastomeres are arranged in a single layer and form the so-called blastula, on which the ordered reduction process ends. (Next, a new developmental stage begins, the formation of a second cell layer, the gastrula, etc.).

A developing organism derives information about its future structure from its genetic program embedded in DNA. The DNA molecule is a double helix of molecules twisted against each other in Ångström units.[14]

14 *Ångström is a unit of length of 10^{-10} m commonly used in optics and atomic physics.*

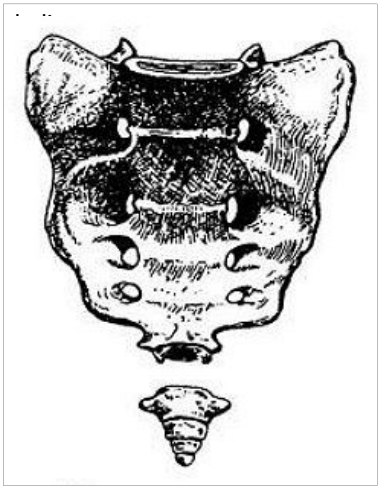


Schematic representation of the double-stranded DNA

Chemically, each DNA strand is a polymer consisting of four types of nucleotides differing only in nitrogenous bases (A adenine, G guanine, T thymine and C cytosine). The skeleton of this molecule is formed by alternating sugars (C) and phosphate.

The number of possible combinations of three of the four elements is 64. Since the composition of protein polymers contains only 20 different amino acids, the coding system seems to be excessively large (over the same number). In addition, the DNA molecule itself contains 64 codons - 32 in each strand of the double helix.

The human spine consists of 32 or 33 vertebrae. The spine (7 cervical vertebrae, 12 thoracic vertebrae and 5 lumbar vertebrae) has a regular triangle at its base consisting of the fused 5 sacral vertebrae and 3 or 4 coccygeal vertebrae.



Sacrum and coccyx

(In the symbolism of such a triangle of 9 vortices pierced simultaneously by 10 holes, according to some researchers, there is a great mystery: they notice an analogy with the Pythagorean triangle - a tetraktys with 9 smaller and equal triangles and 10 points, its vertices: 9 along the circumference and 1 in the center of the initial triangle).

In childhood, a person becomes the owner of 20 milk teeth. With age and replacement, another 12 are added, for a total of 32. In contrast to the number of vertebrae, the possible owners of the 33rd tooth are still only a freak of nature (and the search for meaning appears in vain, as there have been reports from dentists about cases where such teeth also had separate, independent roots).

The numbers inherent in the quasi-crystalline structure of the Earth and characterizing the work of the geocrystal play a fundamental role in the genesis and structure of the human body. This is a significant, if not the main, argument for the prevailing view that we and the na- ture are one, an organism connected to it by inseparable nerve and vascular channels. In ancient times, man was closer to nature than he is today, he felt the oneness and noticed a certain resemblance with it, animated it thence and transferred his sensations to the cosmos as a whole. At that time cosmological ideas were widespread that the universe was nothing else than "an enormous cosmic human body".

"The ancients", writes V. V. Jevsjukov in the book "Myths of the Universe", created "in their image" not only gods and the personified the forces of nature, but "constructed them according to the same set of rules as the universe itself" - as holistically as man is "the crown of creation". They represented the universe in human form and also drew the earth in the same image. Some tribes - for example the tribes of the African Doron and the North American Navajo Indians - presented the earth in the form of a female body. And the ancient Greeks saw the shape of the planet as a gigantic human body rolled into a sphere. In all likelihood, this factor may have been the primary one, for later such representations were applied to the entire universe. With time, however, the desire for "humanization" fell more and more into oblivion (if it was not deliberately ignored, deliberately silent, so to speak, as the highest secret of nature).

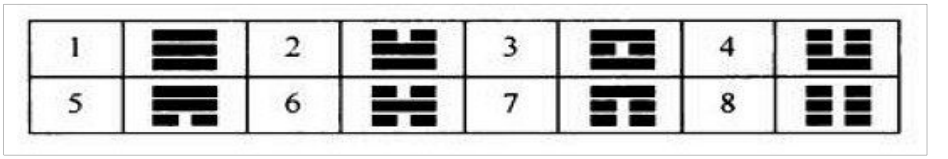
In ancient times and in the Middle Ages, the concept of a microcosm-macrocosm was reflected not only in astrology, philosophy and some arts, but also became the basis of some mystical teachings, became the hidden and sacred theme of some secret societies. The identity of the microcosm and the earth as a part of the macrocosm was understood as a "secret work of nature".

The collected information (independently known or obtained and passed on from holy books and previous mystical teachings) was encoded to serve only the consecrated. In order to satisfy the curiosity of the uninitiated, easily decodable false information and materials were created, which were far from being of primary importance and served only for the purpose of leading the curious away from the main knowledge.

However, "leaks" occurred in the true and uncoded information about the mysterious structure of our planet. These include, for example, the message of the student of Pythagoras, Hippias, that the Earth is a dodecahedron. Somewhat later, the follower of Pythagorean doctrine, Plato, deciphered what the do-decahedral planet was: "If you look at the Earth from space, it looks like a sphere made of twelve pieces of leather."

There is no doubt that the creations of the ancient culture of China - the I-Ching and the proto-chess - are based on the associated numbers 32 and 64.D

The Book of Changes ("I Ching") is one of the oldest books, one of the most important ancient knowledge systems. It developed the conceptual apparatus of Chinese philosophy. According to the legend, one day the ruler of Fu Xi saw a huge turtle swimming on the Yellow River. On its back were seen mysterious bars consisting of continuous and interrupted moves. Fu Xi saw in their combinations a system of symbols that corresponded to his ideas about the universe, in which heaven and earth dominated, from whose interaction all living and non-living things and phenomena were born. These characters are presented in the following order:

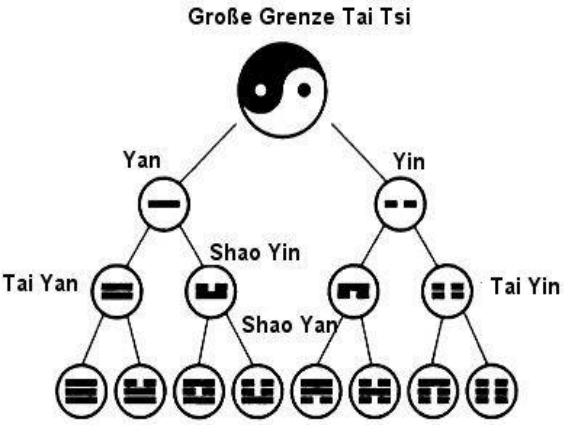


According to the well-known philologist and philosopher Y. K. Shutsky, according to the theory of the "Book of Changes", the whole world process is an alternation of situations resulting from the interaction and struggle of the forces of light and darkness, tension and suppleness, heat and cold, and each of these situations is symbolically expressed in one of 64 signs - hexagrams, which are considered symbols of reality. A person can be in only one of the 64 situations at any time of his life, a 65th one was out of question.

Each hexagram is a column of six characteristics, more precisely of two trigrams, where the three lower characteristics (the first trigram) mean "internal, accommodating, creative" and the upper three (second trigram) mean "external, withdrawing, slackening".

However, the hexagram was represented in a different division - in the form of three pairs of characteristics (from bottom to top): "Earth - Man - Heaven". This construction reflects the reality very well: If the inner and the outer world are united (as it was common in former times), then it turns out that a person stands with one leg in his inner world and the other in the outer world, between earth and heaven. One can clearly see here the difference in the world view of the ancient Chinese to the views that were common at that time and later in many other civilizations: A human being in life is an active energy, which is in no way inferior to earth and heaven and influences the world around us, the environment and destiny. This is the main difference between the Book of Changes and other truth systems, where the person is assigned a passive role.

The system of trigrams, then hexagrams, was used by the priests for divination. It was judged how much this or that action or phenomenon fits into the regular course of events, and with the help of some rules these answers were deciphered, nothing was completely predefined or completely unchanged.



oben / unten	䷀	䷅	䷍	䷋	䷌	䷜	䷡	䷊
䷀	1	43	14	34	9	5	26	11
䷅	10	58	38	54	61	60	41	19
䷍	13	49	30	55	37	63	22	36
䷋	25	17	21	51	42	3	27	24
䷌	44	28	50	32	57	48	18	46
䷜	6	47	64	40	59	29	4	7
䷡	33	31	56	62	53	39	52	15
䷊	12	45	35	16	20	8	23	2

Matrix I Ging

The Book of Changes is thus not so much a book of divination as a book of projections of the evolution of the dual relationship of positive and negative principles, yin and yan.

According to the description of the wooden proto-chess from the 11th century. v. BC the chess board consisted of a combination of two symbols: a round board (heaven symbol) on a square (earth symbol), which also corresponded to two principles, Yin and Yan. The playing technique of proto-chess, which was originally a secret knowledge of a narrow circle of dedicated priests, consisted in throwing the dice alternately from the partners to the boards. Later, the "movements" began to consist of lightly shaking the board. The resulting configurations of the light and dark boards in the images of divination features formed 8 trigrams, which by doubling the number of features resulted in 64 hexagrams.

Modern chess was invented in China in 569 AD. And the 64 cells of the board (32 white and 32 black) still symbolize the same 64 hexagrams of the Book of Changes. White and black figures embody two cosmic forces, positive and negative.

Tracing the evolution of chess and the construction of symbols for the book of changes, it can be seen that some researchers noticed the most important features of evolutionary processes only a few years ago: The urge to reach such a result that the interaction of two opposing forces, dark and light, expressed in numbers 32 versus 32 or a total of 64.

K. Cherevko not only establishes the same numerical basis for Chess and the Book of Changes. Among the matches found, the following are also very interesting:

... 64 chess squares on a chessboard correspond to the code in a DNA molecule; 81 is the number of squares in Japanese shogi[15] and the by-

15 *Shogi is one of the oldest Japanese board games. It was imported from China in the 11th century and originated from the ancient Indian game "Chaturanga". Chaturanga is a common ancestor of chess and shogi, so shogi is similar to chess in many ways. The shogi board is a square with 9 x 9 cells numbered from top to bottom and from right to left. There are 20 white and black pieces in the form of pentagonal boards with hieroglyphic inscriptions. The game consists of checkmating the opponent's king, but unlike chess, shogi has a number of additional difficulties. Chaturanga, in turn, appeared in the first centuries of our era as a war game. In India, Chaturanga was the name of a troop formation; this game symbolized a*

average number of nucleotides in the transport RNA;

64x81x5 (5 is the number of main elements in Chinese natural philo- sophy) = 25920, i.e. the number of years in the "Platonic" year corresponding to the preces- sion or period of full rotation of the inclined axis of the Earth.

Therefore, the following conclusion of K. Cherevko is legitimate: "Some numerical and geometrical features of chess and proto-chess indicate that this game is basically a model of man, nature and cosmos created according to the natural philosophical ideas about their variability developed in the countries of the East."

Even a very superficial analysis of *religious and occult sources*, so to speak, the secret knowledge now revealed in the ancient and medieval mysteries, leads to the conclusion that in the descriptions and constructions the numbers 32 and 33 emphasized in the ideal something higher, something complete and perfect. So the ancient Jews tried to express with their sacred alphabet "32 ways of the wisdom of nature" and thus created their Kabbalah.

> The history of Kabbalah is mysterious. According to legend, the birth of this mystical teaching, which originally existed as an oral transmission, goes back to the time of Abraham and even Adam, although from a historical point of view such a dating seems controversial.
>
> According to another legend, Kabbalah originated from Moses and developed into an esoteric interpretation of the Torah (the Mosaic Pentateuch). Later it also became a practical teaching. Nowadays there are many directions and schools of Kabbalah. In short, its followers believe that it is possible to understand the hidden part of the universe, the spiritual worlds and their interrelationship with our own world.
> "visible world" to study in order to control the processes in these higher worlds.

Battle with the participation of four divisions of troops, each led by a leader. They were located at the corners of a board of 64 squares, with the participation of 4 people. The movement of the figures was determined by throwing knuckles. The successor of Chaturanga was the game Chatrang, which had two "number camps" and, accordingly, two rivals. The sequence of the game consists in checkmating the opponent's king. The "game of chance" was thus replaced by the "game of the mind".

Of great importance are "the 32 paths of wisdom", i.e. 10 figures or spheres (Sefirot), and 22 letters of the Hebrew alpha- bet (3 basic, 7 double, 12 single letters), each corresponding to a certain name of God. Sephirot means "living beings" or "angels" described by the prophet Ezekiel. The letters of the alphabet have a threefold meaning - in the world of mankind, in the world of stars and planets, in the rhythm of the seasons. The applied Kabbalah develops methods of predicting the future of the "White" magic, palm reading, mystical enlightenment. It is clear that orthodox Christianity opposes such teaching.

For Buddha there are descriptions of "32 signs of his perfection", his characteristic physical features. Correct is in the words of P. D. Uspenskogo (from the book "New Model of the Universe"), "if we take 32 signs for the real description of a living person, we must admit that such a person does not exist".

The "quintessence" of the number 32 can be seen as the numerical side of the "strange objects" mentioned at the beginning of the book. These are the 12 regular polygons in the dodecahedron, where each face is a pentagon with a circular hole in the center, which for different reasons is different in size for each face. 20 vertices plus 12 faces (or holes in the center of the faces) finally results in the ominous number 32. Remember: 20 teeth of a child plus 12 teeth "wisdom" and as a result - "the way to wisdom." [The analogies are striking!]

In archaeological excavations, the icosahedron is much rarer. V. A. Makarov had such an icosahedron, in the center of each of which was engraved a certain letter of the Greek alphabet. This object is made of cera- mics, solid and hollow at the same time, with a kind of "pea" inside, which most probably indicates its fortune-telling character.

For all the importance of the number 32 for the structure of the planet and man, the number 33 was considered even more perfect in ancient times: "The first temple of Solomon stood 33 years in ancient glory ... David reigned in Jerusalem for 33 years." In the first chapter of Genesis in the original Hebrew script, the name of God occurs 32 times, and in the English translation of the Bibel 33 times (So judge which number was a symbol of perfection for whom). From the versions of the Bible that have come down to us, we learn of Christ's death at the age of 33, in the most fruitful time of life. And for future generations, 33-year-olds become the age of per- fection. Of course, the 33 degrees of knowledge and the degree of position of its initiated members in the hierarchy of Masonic lodges are not accidental either.

As it can be seen, the enlightened (or initiated?) part of mankind had a precise idea of the general numerical features in the structure of man and the planet long before our time. The spiritual thinkers of antiquity in the form of "strange objects", proto-chess and chess, the divination of the Book of Changes are quite convincing, but most likely not the only material evidence of this.

The Russian Alphabet

If the human world or the surface grid of the planet is characterized by the number 32, and the dynamic property in the geocrystal by the number 64, then the geocrystal itself must be characterized by two numbers: Its static expression is 21, the dynamic is 33. The components of these numbers are 20 vertices in the dodecahedron and 12 centers in the sub-surfaces, near which are the gradients of concentration of the melting sub- stance of the outer nucleus and which are to be considered only in the dynamic; finally, the center of the total mass of the geocrystal, which corresponds to the original crystal nucleus from which the growth of the future dodecahedron began.

This is what man strives for in his evolution expressed in numerical form, in the "details" of the above mentioned structure or in the processes of its formation, retrieving the number of his whereabouts, the quasi-crystalline frame of the planet, the 32nd dimension.

As you can see, nature even provides particularly important information in the language of numbers,[16] which our body perceives as an instruction manual. Let us assume that we have finally understood it. What if we are not even aware of the more important fact: the existence of a direct exchange of information between the energy information field (EI) of the planet and humanity through the numerical meanings of letters and words?

The highest productive activity of mankind is achieved through the accumulation and exchange of information. The most important means of communication or transmission of information are the letters - a sys- tem of signs indicating language. Stages of development of this system are pictographic writing, hieroglyphic writing, syllables and finally the alphabet. Each nation goes its own way, sometimes staying in the regres- sive system for a long time and thus falling into the trap of the extraordinary difficulty of having to reform writing in the era of information overload. Al- phabetic writing is undoubtedly the culmination of the development of the information transmission system through writing. However, the alphabet itself is evolving and at its peak should have only one letter for each sound.

In fact, there are so many existing and obsolete alphabets that a di- rect exchange of information between the planet's EI field and all of humanity is unlikely.

16 *This recalls the words of Pythagoras: "Number is the law and connection of the world, the power that rules over gods and mortals. The essence of things is a number that brings unity and harmony to all. Everything is a number.*

For example, the ancient Jews invented their own sacred alphabet, the Kabbalah, to find "32 ways of wisdom". Perhaps their priests knew something about the 32 corners of the frame of the earth? Or did they have any idea at all about the exchange of matter through 32 radial channels and information from the surface of the planet with its underground? Anyway, the Kabbalah is an artificial construction. Yes, and it was not structurally generated by repeating the numbers corresponding to the skeleton nodes: instead of 20 + 12, it was 3 + 7 + 12+ 10.

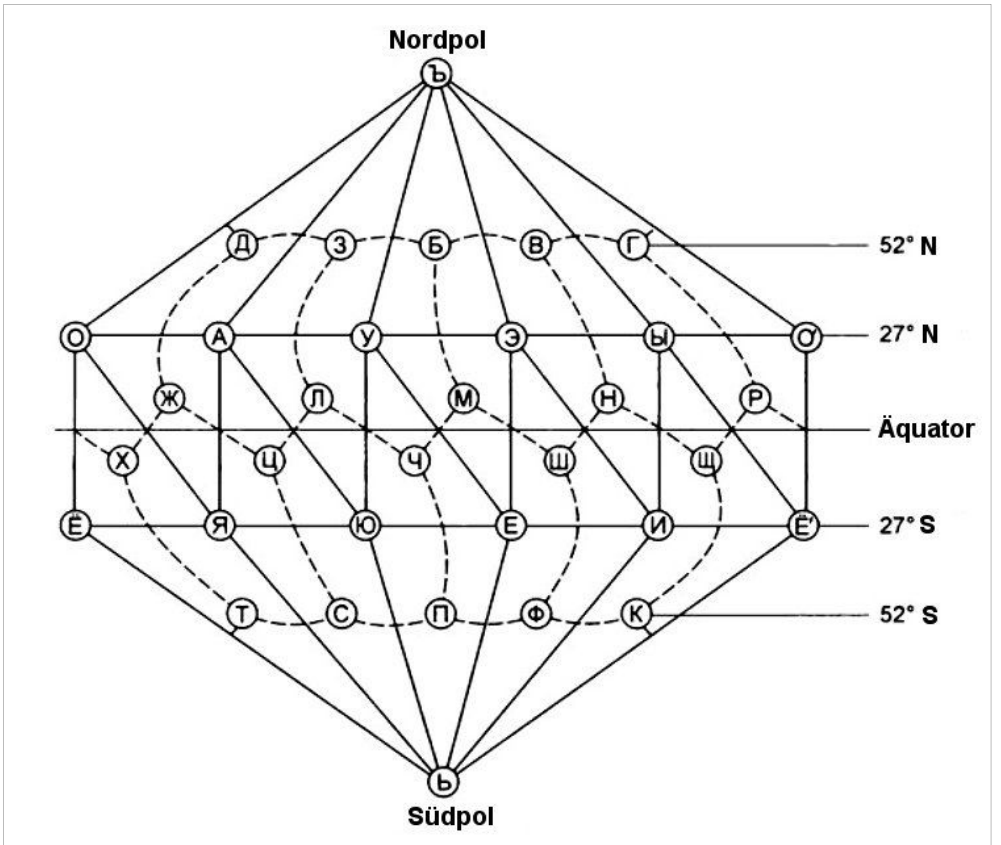
For a particular alphabet to become the means of such an exchange, it must be something of a language model, at least on the surface network of the planet, both in numerical representation and in the identity of structural structure. It turns out that there is such an alphabet, modeled by nature in the meantime. It repeats both the numerical and structural sides of not only the Earth grid framework, but the geocrystal itself.

This is the *Russian alphabet*!

To illustrate this, let's first compare the structure of our alphabet to the structure of the planet's surface grid.

Each subpolar vertex of the terrestrial icosahedron has five similar vertices of this polyhedron at a latitude of 26.57° north and south of the equator. In Russian they correspond to the group of "hard" vowels (a, o, u, s, e) with a hard sign "head" and a group of soft vowels with a soft sign (i, u, e and e). This is also 12 and with the same structure of units.

Further: The earth frame has 20 vertices of the dodecahedron or centers of the triangles. They are located in four zones with five peaks at 52.62° and 10.81° north and south latitudes. There are also 20 consonants in Russian. And they are also grouped by five letters in four "families":



Die Entsprechung der Buchstaben des russischen Alphabets zu den Knoten des Erdrahmens

5 voiced sounds:	b, c, r, d, s, 5
muffled sounds:	p, f, k, t, s,
5 sibilants:	ch, z, tsch, sch (hard), sch(soft), 5
nasals:	, l, m, n, p

In these groupings not everything can be done by the linguists. In the light of the given Russian alphabet one has the greater right to speak for oneself.

So there is a complete structural correspondence between the same number of basic elements of the earth grid and the letters of the Russian alphabet - except for the 33rd letter "Y". This letter remained so far "unconsidered" or we have tried to relate it to the consonants.

However, there is no other letter that has such a large range of functions. First, in the "pole" letters "hard b" and "soft b" is a separator. Only this one is placed after the consonants and "th" after the vowels. Sometimes "y" actually behaves like a consonant letter. And like no other it is letter-forming: with its occurrence it has half of its "softness" 4 soft vowels "yes, y, e, e". In fact, this letter of the alphabet is the only one that can claim to be compared with the center of the geocrystal.

Therefore, it should be recognized that the modern Russian alphabet has become the language model of the geocrystal due to its development!

Among the multitude of alphabets of the planet there were in the past (e.g. the Aramaic), at present (e.g. the Georgian) those which also consisted or consist of 33 letters. But here their correspondences with the geocrystal already stop, because they are structurally very different: There are
z. For example, no vowels in Aramaic and only five in Georgian. Besides Russian, two related Slavic alpha- prayers are closest to the geocrystal language model: Belarusian and Ukrainian.

How can one check the function of the alphabet in its new quality? It can be assumed that if nature has created a structure similar to it, it may also provide the sequence of letters in the alphabet necessary for the exchange of information. That is, each letter has its own sequence number from 1 to 33, which is necessary for a direct connection with the energy information field of the planet. This means that the numerical value of each word corresponds to its code in this field.

We speak with the alphabet, that is, the letters. For example, when we see the picture of the sky, we say "the sky" and people understand us. The geocrystal sees the picture of the sky and says: "15, 6, 2, 16". He said the same thing, but in his language. When he says "39", it can mean many other words besides "Himmel". But they all have an energy informati- on determinant 39. But how do we understand the word? Letter to letter. And how do we understand the equivalent of the word geocrystal? By consistent sum of the numbers corresponding to each letter.

The crystal also tells us something through a series of numbers, but so far we have only learned to understand the total sum of these numbers, and by the sum we mean a large number of words with the same sum of numbers.

In analogy to the abbreviation of the energy information field (EI) of the planet, the numerical value of the word is called the energy information of the word (EIS). Let's check our assumptions, starting from the main numbers for the geocrystal. In this case, of course, we will consider these numbers as codes for which there is a corresponding EIS that we have already accidentally found in their physical reflection.

- For example, the word "tooth". There are 32 of them, as well as their code in the EI field (phi = 9, ypsilon = 21, sigma = 2; 32 in total).
- EIS "DNA" = 32, EIS "Kabbalah" = 32, EIS "Core" = 33, EIS "Cell" = 64.
- EIS "vortex" = 104, instead of the apparent 32. That is, 32 + 72. And 72 corresponds to the EIS "core" and "melt". Therefore, the formation of the word "vortex" is most likely influenced by the outer core of the planet (both the core and the melt).
- EIS "rib" = 60. The surface grid of the planet really consists of 60 edges. The question is from which edge Eve was created. By the way, the EIS "EIS" is also equal to 60. EIS "cavity" = 6. There are 6 pairs of "devilish" axes of the planet, which penetrate the Earth and go through its center, melting the outer core.
- "Cell" (EIS = 64) + "Tree of Life" (EIS = 100) = "Tree of Knowledge" (164).

As you can see, the words were not created by chance, but under the influence of the EI in the grid of the planet. This shows once again that the language based on the modern Russian alphabet is also the language of the geocrystal. The unity of the nature of the planet, the nature of man and the basis of his means of communication - the alphabet - is realized by their common structural-numerical structure, which is "programmed in" by the geocrystal.

Unlike proto-chess and "I Ching", a multi-layered "strange object" with printed letters, the Russian alphabet does not serve any splitting purpose. That is, it is not a model for the planet's shells or the processes of interchange between them and the geocrystal that produced them. It is an independent model of the geocrystal. And if the access to the EI field of the geocrystal for these models is opened by some simple manipulations and has only a measuring character, the Russian alphabet is always connected with it. Each letter of it is a permanent "representative" of a certain node of the EI field in the grid of the planet.

We want to model the object of nature and achieve appropriate properties. That is, the model must acquire energy information qualities of the object. Subsequent experiments with the model allow us to discover those properties of the object that were not known. On this basis, the numerical meanings of the letters of the Russian alphabet, words and their successive parts, and phrases are common for the identification of everything in the EI field of the planet, the field of crystallization of the geocrystal.

This means that through the Russian alphabet a direct access to the unlimited memory of this field is provided - without any kind of me- ditation, without witchcraft, rites and rituals of shamans and healers, without word formulas or specially composed prayers and other key me- thods. In order to get the necessary amount of information, it is of course necessary to investigate such a possibility carefully and thoroughly. But the fact, as already explained, deserves great attention.

It remains to be noted that the idea of exclusivity of the Russian alpha- bet has existed for more than a decade. However, the excessive worship of Pythagorean numerology led to the loss of the main thing: the energy information of words, their parts and phrases. The numerical meanings of words, defined as the sum of the ordinal numbers of the letters in the alpha-bet, were transformed by the earlier researchers into the sum of their numbers and finally received a digit, from one to nine.

Thus, according to the Pythagorean school, the word has received characteristics which correspond to this figure. Thus, only something common to tens of words with the same final number was determined. Of course, the analysis of words combined into nine groups in this way is very useful, and the results are of interest for further research. However, this is only a fraction of the possibilities that the Russian alphabet offers for knowledge of nature.

A word is both an information unit and a bundle of information energy and therefore, when used, causes a corresponding numerical value of the disturbing influence of certain sections of the EI field which can not only increase the energy of the word but also produce the effect described by the word. In this order incantations, word healings and other verbal rituals are apparently performed.

A unique monument of mankind, undoubtedly written by the "language" of the geocrystal field, is the Bible. Through the Russian alphabet many of its key passages are "decoded".

It is known from the Bible that the Lord imparts the inescapable knowledge about Himself through His word. His creation, man, also conveys knowledge acquired through words about the nature of the earth, about himself and his nature. And if God created him with words, then apparently al- les goes that at some point a man will be able to use the energy of the Word more widely than before. But only so far as they leave him knowledge and skills.

We will continue our experiments by consulting the "Revelation of John the Divine".

The family of "bestial numbers

Chapter 13 of Revelation speaks of two visions of a "beast." The first "Animal" came from the sea.

It is known that the average radius of the Earth, i.e. the distance from its center to the surface or the human world, is determined by the level of the world ocean.

Water is one of the 5 creative elements of nature. In the Pythagoreans and in the natural philosophical concepts of the peoples of the Earth, each of the elements corresponds to one of five known regular polyhedra: The tetrahedron symbolizes fire, the octahedron symbolizes air (in China metal), the cube symbolizes earth, the icosahedron symbolizes water, the dodecahedron symbolizes ether or the planet as a whole (in China the tree). From this it is obvious that the earthly icosahedron, whose 20 triangular faces are the world of man, is naturally identified with its element, water. By the way, this statement is also found in the
17th chapter of "Revelation": "The waters ... are people and nations, tribes and tongues".

This means that the researchers and theologians are right when they say that the "beast" from John's first vision comes from the world of man and the Antichrist nicknamed it. Before its ma- nifestation in this capacity in the power structure of the nations, it was given a very high position and thus opportunities. This is proven by its description: the beast "with seven heads and ten horns". Here the elements of the structure of the kabbalistic alphabet come back. However with a clear difference: In the Kabbalah the holy alphabet begins with three main letters which are called "mothers". From them then - without names, in a miraculous way - more "7 first" are received, and their sum- me reaches ten letters at this moment.

Undoubtedly, both the description of the "beast" in Revelation and the original construction of the Kabbalistic alphabet have a common element: the structure of the surface framework of the terrestrial icosahedron is in all probability used by the Kabbalists. "The three mothers" - these seem to be the three vertices of the triangle. The seven first" or the "Seven Heads" are 7 new vertices belonging to the triangles of the first subsystem, obtained by dividing each side of the main triangle into three equal parts, connecting the obtained points with straight lines parallel to the sides of the triangle.

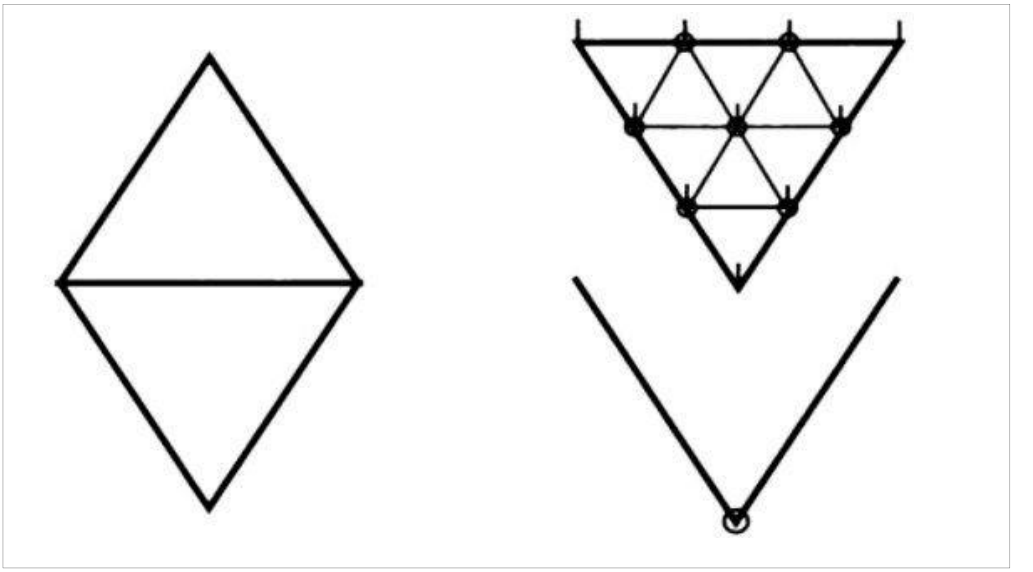
At the same time, it turns out that the original triangle is divided into 9 smaller triangles of equal size (as mentioned above, this shape was called "tetraktys" in Pythagorean times, and in ancient Russia it was called "trident land".

Seven new points and only ten in one of the triangles of the earthly icosa-eders - that means the heads and horns of the first "beast". It would depend on knowing over which of the twenty triangles of the earth such a ruler is designated!

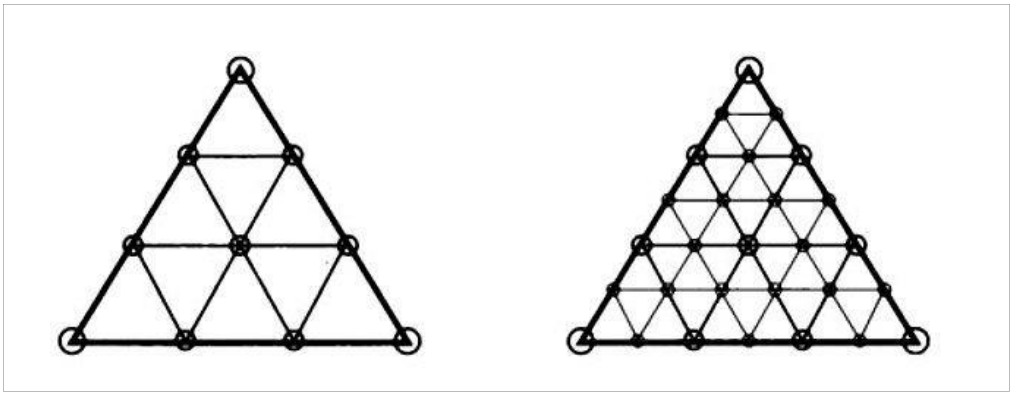
Interestingly, the word "summit" (in this case of the triangle) is unknowingly associated with the "mountain". In chapter 17 of the "Revelation" it says: "Here is the mind that has wisdom. Seven heads are seven mountains ..."

But the question is: Why have some researchers decided that the number 666 belongs to this particular "beast"? "And I saw another beast coming from the earth; it had two horns ..." This "beast" is qualitatively different, it does not come from the earthly world, i.e. the human world, but from the underground, which is more often called the underworld. Since time immemorial, natural philosophical concepts have graphically represented the unity and interaction of the three worlds - heaven, earth and underworld - as a rhombus consisting of two equilateral triangles. The upper (and upper-lower) is, of course, the heavenly world; at the boundary, the human world is the common sideline of these triangles. The idea of such a graphic representation of the three worlds is obviously not an invention of imaginary energy. Ten such rhombic blocks (or twenty triangular ones) make up the terrestrial icosahedron. Most impressive is the rhombus of our Indo-European triangle (with its apex at the planet's north pole) and the African triangle adjacent to it on the south side. In the center and on top of it, in the middle of their common side, are the Egyptian pyramids of Giza.

It is clear that the human world in its position is the border area of two neighboring worlds (The desire of mankind to expand its area of stay in the sky and on the earth split the common side of the triangles. The graphic interplay of the 3 worlds now looks like a 6-cornered star that Israel has taken as its national emblem). This describes the area of contact between the interests of the "neighbors", the sphere of struggle for the supremacy of the spiritual or material being of man. It is not difficult to see that the struggle is going on with different success.



On the left the 3 worlds: Heaven, Earth, Underworld. On the right, the two beasts of Revelation.



Left 10 points or Pythagoras' tetractys. From their connections 9 equal triangles are formed. To the 3 original nodes of the triangle 7 new ones are added.

On the right, the number of triangles is 36, which corresponds to the second "cosmic tetraktys of the Pythagoreans" or "the holy quanterion". The number of nodes is: 28.

For the beast that "comes out of the earth" and pursues the goal of a false pro- phet ("To subdue the whole earth and live on it, worship the first beast"), the interests of mankind remain unconsidered.

Therefore, instead of the downward pointing triangle with 3 heads (sym- bol of the underworld), a head and two horns are represented, i.e. in the form of the Latin letter V, which is graphically formed by "erasing" the top of the triangle with two dots.

Let's pay more attention to the description of the second "animal", as here the most important, selfish essence of its nature is highlighted: to counteract the goal, despite the greatly increasing adversity of people, without even considering the massive human losses.

As will be shown below, the number 666 does not apply to this "beast". See for yourself: "And he will do what everyone does ... and have the mark put on his right hand or on his forehead, and this can be no one ... except the one who has the mark or the name of the beast or the number. Here is the wisdom. He who has intelligence counts the number of the beast, for it is a human number, its number is 666." (ch. 13 of "Revelation").

Apparently, an excess of vanity prevents theologians and scribes from admitting the obvious: "The number of the beast ... 666 ... the number is human," can be "type," "the name of the beast," or "the number of the na- m of the beast."

With the help of the Russian alphabet, let's start to calculate the numerical value of the name "animal". "Z" - the ninth letter in the alphabet, "W" - the third, "E" - the sixth, "R" - the eighteenth, "soft sign" - the thirtieth. The sum is 9 + 3 + 6 +18 + 30 = 66. So now we know not only the number of the name of the animal, but also the name of the animal in numerical terms: 666 and 66. From this follows the conclusion about the nature of the link: both already known numbers consist of inscribed sixes - that is persecution. By the way, in the Chinese divination "I Ching" the characteristic of the negative Sushinosti Yin is also "6"! A word with a numerical value of 6 is "hell" (1 +5).

Now one should follow the call "Count the number of the animal". Since it is referred to as 666 in the text, the probable meaning of the call is:

To find the logical and/or mathematical way to reach this number, calculate it and pay attention to whether a wisdom closes or opens during or after it.

In order not to get lost in the maze of search ideas, there is the "thread of Ariadne". It is the method of "marking" the animal, which is indicated by the "opening", throwing off from it a mask of philanthropy. That is, the human world is marked by the symbol of the earth
"dropped" - a triangle with the apex together with the "deleted" upper side of the triangle, two vertices of this triangle lying on it, and analogously the vertices of all other smaller triangles also lying on it and belonging to a number of subsystems of the surface grid of the Earth. The remaining vertices should probably correspond to the number of "heads" of the animal or simply to the number of the animal.

For the animal that came from the earth and acted with all the energy of the first tie, it turned out that the animal number was a unit: Between the two remaining sides of the triangle - the horns - there is only one point, the head. For the human being it is equal to 666.

Know that a successive series of subsystems of the IDSE has been created by dividing the sides of the previous triangle (starting with the main) by 3:2:2:3:3:2, and so on. Determine the total number of vertices obtained within the boundaries of the main triangle. Subtracting from the obtained sum the number of vertices lying on one side of this triangle, we obtain, by estimation, the number of the tie. If we really jumped on the "thread of Ariadne", it should lead us to the desired number 666.

Thus, for the main triangle the total number of vertices is 3 and the animal number is 1. For the first subsystem 10 and 6, for the second 28 and 21, for the third 91 and 78, for the fourth 703 and 666. This is all, as stated, correct ...

And still the question arises once again: In what lies the wisdom that the
"Revelation" promises? In the discovery that the numerical "zoo" consists of the 5 animal numbers 1, 6, 21, 78 and 666?

Or is embedded in some special features? Another story will answer these two questions in the affirmative.

"Do not awaken the wild beast within him."

We subtract from the animal numbers "families", "characterized by plague breath of hell", i.e., consisting of sixes.

Nevertheless, a little must be said about the animal in man (666), since his characteristics are inherited from the first man, the animal-man, for which reason the original animal nature slumbers in every modern man, though in varying degrees. Indeed, some man never loses his temper, there is almost no bestial temper in him. In others he is well tempered by reason, and the wild beast in him seldom comes out in small doses. In the third lies the most impetuous tempe- rament. Especially when there is an unbridled thirst for blood, there is a legitimate reason to call it what is often called a "beast". Or are such people perhaps already secretly "branded" with infernal inscriptions?

In the Bible, the first animal man named Adam and - looking to the future - man as such was created "from the dust of the ground". The numerical value of the word "Adam" is 21 (1 + 5 + 1 + 14), which corresponds to the third star number. In contrast, the starting material for Eve's mystical creation was a rib. As mentioned above, the EIS "edge" is equal to 60 (18 + 6 + 2 + 18 + 16). This is exactly the edge number which contains the ikosi-dodecahedral grid of the planet. Herein lies the probable source of Eve.

The first creation of a woman named Lilith (according to ancient Hebrew, bibli- cal texts and mythological dictionaries), on the other hand, was unsuccessful. The material of her "modeling" was also the dust of the earth, but the creature turned out to be a complete manifestation of the animal: her EIS is 66 (13 + 10
+ 13 + 10 + 20), as well as the EIS of "animal".

The natural energy of Eve is reflected, as some researchers believe, in the shape of her name: "E-v-A" - "energy in the atom". And according to the Russian alphabet, the EIS of "Eve" corresponds to the number 10, the already mentioned Pythagorean Tetraktys.

The emergence of Eve at the edge of the quasi-crystalline geocrystal field might have had a favorable effect on future generations of humans. On the one hand, perhaps because of this - and not because of the na- tural course of evolution - the basic numerical values of the "construction" of the planetary skeleton are repeated in modern man. On the other hand the animal essence of the dust of the earth, which was originally inherited by Adam, should apparently decrease with each new generation of humans.

At the throne and its foot.

We would like to focus on one of the animal numbers - 78. As it turned out, the owners of such an EIS bear the sad fate of whole na- tions. When they ... become their ruler. Those rulers who have the number of the animal name (for a certain person, of course, this number is the family name by which he is usually known in the surrounding society), have enviable much vitality, are attractive by their activi- ties. As a rule, there are more fighters in the mass, who fight for the possession of the crown of power (the EIS for "crown" also corresponds to the 78) than the an- ticipants with other EIS. However, it is fire dangerous to grant them the highest authority, because a circumstance will occur under two conditions (the number of the surname of the animal ruler and the actual possession of the power of the ruler). As a result, the logical element "I" is fatefully triggered and the owner of higher power falls into the negative energy informati- on field of the animal ruler, which determines the choice of his decisions and activities.

Calculate the EIS "Stalin" and evaluate the possibilities of the Russian alphabet. The Russian alphabet is an impartial analyzer, it provides the most reliable properties ...

The relationship between the ruler and the people under his control is one of the most important aspects of the state's existence. The masses are always he- terogeneous, the interests of the individual strata often diametrically opposed. It is almost impossible to find a ruler who would contribute to the satisfaction of all the people's desires, with whom everyone would be satisfied.

Being a ruler is a kind of art, the art of relating to the people. What should be the optimal guideline?

This question was addressed by the Italian thinker and writer Niccolo Machiavelli in the late 15th and early 16th centuries. He came to the conclusion that for the good of the state, the ruler should not only be tough, but in some cases must also be willing to make decisions that are unpopular with the people. That is, according to his conclusion, sometimes to be a *beast.* After all, from the height of the throne you can see much more and farther than from its foot or without it.

Manb remember the first animal of mankind. According to the Bible, it began with Adam. The EIS of "Adam" = 21, that is, it corresponds to the third "animal" number defined by the" horns ", the remaining sides of the triangle in the second partial system of the IPSE. There can be nothing unexpected here, since the first man, like all other creatures, was created from the dust of the earth. Leaving aside its structure, it does not differ much from terrestrial animals. The total number of vertices of the indicated triangle is 28, which apparently does not correspond to the EIS of "faith" by chance. It turns out that the development of the first human being to a real person took place in 7 successive stages with an EIS of 22 up to an EIS of 28. On the first energy information level of human evolution this is the energy of the original word "God" with an EIS of 22 (remember the lines of the Bible: "In the beginning was the Word and the Word was with God"). The meaning energy of the word "God", which was most necessary for the first man in the first moment of his development, prevented the influence of the "earthly beast" on Adam (1 + 21). Probably it is not a coincidence that in the Tarot an empty card and 21 numbered ones are combined in the number of God protected by 22. However, it is believed that the influence of the Kabbalistic tradition of divination influenced it.

In analogy to the triangle of the second subsystem, for the triangle of the next subsystem in the energy information field of the geocrystal there is something like the "frequency range" of the rulers of the EIS from 78 to 91. This series of energy information levels starts with the ruler (whose "number of the name" is 78). So it is as if the EIS for "crown" (78) confirms this fact.

The leading animal is deeply egoistic. In order to achieve its goal, it does not consider it necessary to count on the opinion of the people, ignores its vital interests, is ready, as they say, to "walk over corpses".

A ruler with an EIS equal to the second number 91 ("staff") is the exact opposite of the first ruler in its properties. It will avoid making decisions that could affect the innocent part of the population, especially if there is a probability of bloodshed.

As already shown, these two numbers correspond to the number of vertices of the triangles of the third subsystem in the main triangle. 91 is their total number and 78 is reduced by the number of vertices which lie on one side of it. That means, 13 "nodes" of this subsystem, which belongs to the human world, are ignored; therefore this number is animal.

In this 13-digit number range of the ruler there is, as expected, a numerical level and an "optimal" ruler, i.e. a level in which, as in the "golden section", both limiting numbers are best balanced. Since the number 13 belongs to the Fibonacci series, in which three consecutive numbers are in a relation corresponding to the "golden section", two others are also known, their components and the preceding ones, the numbers 5 and 8.

This means that the number corresponding to the "golden section" of the ruler is 78 + 5 = 83 or 91 - 8 = 83. Thus, it turns out that the optimal Li - neal is "programmed" with the EIS = 83.

The ruler, which combines the "perpetual ruler" and the animal man, that is 78 + 21 = 99, is highly energetic, but the energy seeks a way out in dazzling deeds.

Such people are capable of decisive actions full of courage and arrogance. Examples are Napoleon or Khrushchev. They are not afraid of anything and are ready for any reckless action. What will happen to people (or mankind in general) does not bother them.

During his life and afterwards, every ruler contains a variety of myths, a mixture of truth and half-truth, conjecture and outright lies. Everyone can choose the variant of qualities of the leader that he is ready to accept as true. It turns out that the truth is not absolute. The Russian alphabet helps to get out of this labyrinth of judgments.

Consider the EIS of "Dzhugashvili", equal to 101. The word "Messiah" corresponds to the same meaning. The same energy information level was given to Pushkin, Metschnikov, Pilyugin and Listyev. The question of whether or not we want to recognize in their obvious manifestations of talent the influence of a certain purpose, the connection of their names with the conception of "Messiah" by the EIS, cannot be ignored. It can be argued that there are not a few owners of such names, and there are many others with the same EIS, but they do not fall under the concept of "Messiah".

First, with the same EIS, nature generates an enormous number of na- mes to achieve the goal in the selection process, and second, not every surname has letter combinations that resonate with the energy structures of the energy information field. As for example in the word
"Pushkin", where the numerical value of the first three letters is 64 - the nu - meric feature of the dynamic metabolic processes between the geo-crystal and the surface frame of the planet. Or in the word "Metschnikov", where the first four letters have a numerical value of 60, i.e., correspond to the energies of all 60 edges of the planetary quasi-crystalline lattice. Similarly, the energetic substrate of the owners of the family nouns "Pilyugin" and "Listyev" is found from the 62 nodes of the planetary frame.

However, Dzhugashvili's surname is based on something else, which suggests that sometimes fate offers the alternative choice between several uses. The sum of the combination of the first 8 letters of the surname gives the numerical value 78, the number of the leader, and with the ninth letter the sum increases to 91, the value corresponding to the most human ruler. So, not only a messianic destiny is possible. The area of the manifestation of the Messiah is determined: The ruler and an obligatory change of the surname with the choice of the degree of humanity by the EIS are thus provided.

Dzhugashvili changed his surname to Stalin and fell under the influence of the planetary field according to the EIS of the new surname 78 (and this is fate, because the EIS of "fate" is also equal to 78!). When he became ruler, he was in resonance with the field of the "beast", the manifestation of which was to be expected during the whole period of Stalin's rule.

In the history of Russia there was an uncertain moment regarding its future destiny. Its exodus was unpredictable and seemed incredible even on the eve of a fateful decision. This is the last time of trouble - the year 1613.

After the victory of Minin and Pozharsky over the Poles, letters were sent to the cities "to call the people's assembly to elect a new tsar," to send the best and wisest people from everywhere to Moscow ... Some news show that in the vicinity of Moscow various assemblies were held where the cause of electing the king failed.
"A three-day strict fast was enacted in all areas of Moscow and prayer services were held so that God would enlighten the voters and the election of the tsar would be accomplished not by human machinations but by the will of God." (quoted from N. I. Kostomarov).

Apparently, this is how it happened. The one who was not even thought of at the beginning was finally elected tsar. His race, whose origin and nobility looked like this, could not compete with others.

Thus, by the will of God, the royal throne was given to the Romanov family for over 300 years.

I would like to believe that "not by human machinations, but by the will of God" Vladimir Putin was elected to the Russian "throne". With his "entry into history" one should expect that the modern "time of problems" will come to an end. Let's count the number his last name: The EIS of "Putin", like the EIS of "Romanov", is 83, i.e., the golden ratio of the ruler. As a rule, a particular owner of the
"Surname number" 83 only claim the throne at a crucial time.

The animal structure of the tarot

There are many hypotheses about the origin of the code of the tarot cards (Ta- rot), but none of them seems to be exhaustive.

It is generally believed that the inventors of maps were either the ancient Egyptians or Spanish gypsies. The first hypothesis says that the priests of ancient Egypt, foreseeing the fall of their empire, wanted to preserve the ancient knowledge about the structure of the universe. Therefore, they encoded the Holy Book of Thoth in the form of a series of images and chose a human vice as the carrier of these secrets, a game of chance passed from generation to generation.

The second hypothesis states that the gypsies were probably not even inventors, but only sellers of the cards, and that medieval freemasons, who had extensive knowledge of the mystical sciences, would have the actual authorship. Furthermore, in the 4 suits of the tarot cards, the structure of the goods of the medieval society can be clearly seen (spades = nobility, hearts = clergy, diamonds = merchants, clubs = citizens). The fact that the first mentions of Tarot cards in historical documents date back to the Middle Ages confirms this.

However, it seems more likely that the maps contain more serious knowledge about the structure of social relations in Europe, since they have long been considered the key to the ancient mysteries. Therefore, the second hypothesis is most likely the continuation

or an "offshoot" of the first. It is believed that the occultists of the Middle Ages tried to understand the meaning of the cards and redesigned them according to their own understanding, which is most likely why the original images of the Tarot cards were lost. Apparently, the tarot cards reflect the energy and information structure of the world around us. They are used to tune different energy channels (for divination and other purposes), but this approach is usually not published. The use of tarot cards mainly for gambling purposes led to the simplification of the deck - in the end only 36 cards.

What is the relationship of the structure of the deck to IDSE and the identified numerical symbolism?

The structure of a complete deck of cards is based on all 3 "pure" animal numbers: 1, 21 and 78. The whole deck contains 78 cards and is qualitatively divided into 3 unequal parts. 21 of them, numbered from 1 to 21 and with different drawings, clearly contain some kind of cipher. One card was blank at the beginning, but in the course of time a jester was depicted, and therefore it was called "jester" or "juggler". These 22 cards are called Major or Grand Arcana, and the remaining 56 cards are called Single or Minor Arcana. (It is believed that the structure of human consciousness and its relationship to higher consciousness is embodied in the Major Arcana, and the structure of the material world is encoded in the Minor Arcana).

Of the 56 "simple" cards, we are accustomed to only 36. The remaining 20 cards consist of cards with 5 virtues (from two to five including plus sides), each virtue consists of 4 suits. Is it not possible to recognize in these 20 cards the structure of the earthly icosahedron: its 20 triangles located from north to south with four belts of five pieces each!

The 36 maps known to us consist again of 9 virtues from 6 to 4 colors. This is the same information about the first two subsystems of the terrestrial icosahedral framework: In the first subsystem, each main triangle is subdivided into nine smaller ones; in the second, each triangle of the first subsystem is in turn subdivided into four. That is 36 in total.

Thus, under the 56 indicated to us by maps, lies the knowledge about the icosahedral "house" and its "rooms" of the human world. And it turns out that the purpose of the maps is to preserve the knowledge about the Earth. At the same time, the Russian alphabet indicates that originally not only 22 cards, but the whole deck was called "Tarot", because the words "Earth" and "Tarot" are energy-informative synonyms: They have the same EIS value = 75. Here the knowledge is brought to our time!

By the way, in ancient China the number 36 symbolized the whole world, for the Pythagoreans it is the sacred quanterion. If you add all the numbers from 1 to 36, you get ... the number of the animal in man: 666.

I wonder if there is anything else on earth where the whole thing would be "introduced" besides the "bestial trinity": 1, 21 and 78? Yes, it is the devil himself. His EIS is 100 (5+30+33+3+16+13), that is, the entire
"animal trinity" is contained in it: 1+21+78 (we recommend the cross sum 100, because the EIS of "baptism" is also 100).

Not only in Tarot cards, but also in other games, the mortgage is laid on the structure of the icosahedral framework of the Earth and the "star numbers". For example, 28 dominoes reflect the second subsystem of the triangular division, as 36 triangles converge exactly at 28 vertices. If we add 1, 2, 3, 4, 5, 6 in the game "Pustyshka = Hollow Nut", we get 21 - this is the "animal number"! In games, the cube is also often used. Why exactly the cube? After all, you could use an octahedron or something else. 1+2+3+4+5+6 = 21. It means that also here the "animal number" is added up.

Further research on the "Revelation of John

1. "And I saw the Lamb remove the first of the seven woes, and I heard one of four beasts saying like a thunderous voice: go and see." The EIS of "go and see" = 132, just like the EIS of "geocrystal", the EIS of "seal" 99 as well as the EIS of "dodecahedron".

But if the word "animal" means approximately "cattle" (or should be translated so), then the EIS = 66, just like the EIS for "sphere". This results in a part of the chain of the planetary creation of God.

2. "I am the Alpha and Omega, the beginning and the end," says the Lord. "Alpha and Omega" has a clear preference in comparison to "Beginning and End", because it is marked in big letters and stands in front. The EIS of "Alpha and Omega = 108, the EIS of "Beginning and End" = 144. Here the constant 108 is clearly more important than the 144. It is interesting to note that in the history of Russia's statehood the main periods are 108-year periods and the history of some other foreign empires go through 144-year periods (G. Kvashi's research).

The EIS of "Lord" is equal to 107. Under the "control" of the Lord is death: the EIS of "death" is also 107. But the EIS of "beginning" is 71, the EIS of "End" is 73. Between these numbers (71 and 73) there is an EIS equal to 72, corresponding to the word "life". As it looks, it confirms the Russian alpha- bet life and death in the hands of the Lord. The poet is right: The moment between past and future is called life.

3. "... have the key of David which opens - and no one closes and no one opens ..." The EIS for the "key of David" = 125 (the same EIS for "Lucifer" and "Christ"). The EIS for "opens and nobody closes and nobody never opens" = 666 (333 + 333).

4. "And there was a great battle in heaven: Michael and his angels fought against the dragon, but they could not stand, and there was no place for them in heaven. And the great dragon, the ancient serpent called the Devil, and Satan, who deceives the whole universe, were cast out, and his angels were cast out with him. And I heard a loud voice speaking in heaven: ... Woe to those who dwell on the earth and on the sea! Because the devil has come down upon you in great fury, knowing that he has but little time left.

The EIS of "great battle" = 132, i.e. double "beast", 66x2. But this must be reconsidered somehow, because 132 is also the EIS of "geocrystal". EIS of "devil" and "Satan" are 100 and 57 respectively.

Continuing in the text of this section: Revelation refers to the entrance into the battle of the dragon with "those who keep the commandments of God and bear witness to Jesus Christ". The EIS of "Christ" = 125, in contrast to "Lucif- er" (whose EIS is also 125). The "great dragon" is the fallen angel "Lucifer" cast to earth. As we see, the protection word of the heavenly world is opposed to every energy information meaning of the word of the earth world. The EIS of "devil" = 100, the same EIS lies in the words "blessed" and "so- phia", thus offers protection on material level. Protected from the "Satan" is
"Islam" (EIS = 57)

5. "And the angel said unto me, Why askest thou? I will tell you the mystery of this woman and the beast that she carries, which has seven heads and ten horns. The beast which thou sawest was, and is not, and shall come out of the bottomless pit, and go to the grave... Here is the mind that hath wisdom. Seven heads are seven mountains, on which the woman sits, and they- ben kings ..." Seven mountains are like seven peaks, seven vertices of the triangle, new vertices for the first subsystem. And their total number has become 10, from where "the horns descend".

6. "... the ten horns you have seen are ten kings ..." "And the woman you have seen is the great city that rules over the kings of the earth." "... the waters which you saw, where the harlot sits, people and nations, tribes and tongues."

Apparently, the horns are royal crowns, corresponding to the number of nodes, i.e. vertices in the triangle of the main subsystem and the first-order subsystem. The tenth king of kings ruled over the nine kings. In the center of this triangle was his capital - "the great city".

7. When the book was being prepared for publication, the author received a letter from Sergey Gorsky, who spoke about his Bible studies using the following quotes from Revelation:

The city (the holy Jerusalem) is located similar to a crystal in a "Square", "in length and width and height" it is equal", it has 12 walls and 12 gates in the middle of each wall. This city is of crucial importance for the cosmic destiny of mankind, since through the holy wedding of the Savior with it the first resurrection to eternal life of 144000 righteous takes place. Moreover, the holy city of Jerusalem is directly identified with the tree of life, which carries in its spreading crown the "clean river of the water of life", which can be compared with the influence of the IDSE on the biosphere of the planet.

Other observations

1. The communication colors with EI field:

Color	**EIS**	**its characteristic**
white	61	
gray	83	Universal color, calm, neutral, can harmo- nate with all others.
black	105	
red	105	Wealth, luxury, symbol of loud communication
orange	107	Warmth, cheerfulness, joy
yellow	88	Heat
green	90	calming effect
light blue	83	Sky, space, air freedom
blue	65	Feeling of peace (when deep blue)
purple	146	

Some conclusions:

a) Two colors - gray and light blue - have an EIS of 83, which corresponds to the term
"middle" corresponds. If gray is really the middle between white and black, then light blue in the spectrum of the rainbow is closer to the concept of the
"golden section". With the Fibonacci number 8, blue is found on one side of the rainbow in the fifth row, on the other side in the third row. If we look at the actual number of colors of the rainbow (7), only green can be said to be in the middle of the row. Here intuitively a kind of riddle arises: whether there is an eighth color in the rainbow (perhaps ultraviolet)? But then the "golden section" of the rainbow is indefinable. The same is true for infrared radiation.

b) Two colors - black and red - have the same EIS. Apparently, it is not a coincidence that Kazimir Malevitch created two canvases with the same energy: "Black ..." and "Red Square". They really have the same EIS
= 165. Malevitch has seen in these images clearly more than many people think. At the same EIS lie the concepts of "triangle" and "faith, hope, love".

2. "Will (Volya) is a special feeling known only to our ancestors. No wonder there is no such word in other languages. It is usually translated as "freedom". But freedom is a pathetic semblance of will. It is a will that is enshrined in the constitution of Western democracy." (M. Zadornov, Chechnya, Russia's Antiquarian Rake, MK 12.12.01.)

The EIS of "Will" = 65 and the EIS of "Freedom" = 62. If Zadornov is right, according to the Russian alphabet the number 65 describes the energy of the Earth's volume and 62 the energy of the nodes of its surface frame!

3. The EIS of "square" = 60, the same EIS as for "edge". No wonder that the old Chinese square (and not only this one) symbolizes the earth. At least one considers it. But the Russian alphabet requires a refinement: The square is not a symbol of the earth, but its energy information field, i.e. the energy of the 60 edges of the planetary grid: The 30 edges of the sphero-icosahedron plus the 30 edges of the sphero-dodecahedron.

Russian History

All earlier civilizations represented the history of human life in four phases. Egyptians, Indians, Chinese, Babylonians, Greeks and Mayans marked these phases with different colors. Moreover, all of them considered the first phase as white and the last one (which was still ongoing for them) as black. The path from the first phase to the next days is the path from the golden age, the realm of truth and goodness, to the iron age, the realm of lies and evil.

In old Indian sources not only the ratios of the duration of these phases are given, but also the absolute values of the respective duration. The total duration of all four phases (called Juta) is 4320 years. The number correlates with 4: 3: 2: 1 or in earth years with 1728000: 296000: 864000: 432000. The common divisors of these numbers are 108 and 4000. The last number (4000 years) is the century of the gods according to the research of the Russian Indologist I. Guseva.

If we reduce the duration of the phases, expressed in years, by a common divisor of 4000, we obtain *the ratio of the duration of the state formations in Russia*, expressed as their actual values: (4x108) : (3x108)
: (2x108) : (1x108). It turns out that the history of statehood in Russia, reckoned from the first ruler of Kievan Rus, Prince Oleg, to the year 2001, had passed through both the time and the phases of all mankind. These are the conditions and duration of all four temporary phases of its statehood: Kievan Rus, Moscow Rus, Russian Empire and Soviet Russia.

Apparently, the discovery of this system should coincide just now - and not more than ten years ago - with the time when the Russian scientist G. Kvasha published his Historical Horoscope. In it he explained the so-called 12-year catastrophic cycles that researchers had noticed long ago.

"The influence of the sign in the current year," writes Kvasha, "is almost imperceptible ... However, it is the same for all people. In whatever year a man is born, at whatever age he is, he resonates with all mankind on a single wave, and the length of that wave is 12 years." Kvasha noted that when a particular 12th jubilee is marked by the unification and consolidation of society, its rise stabilizes at the next 12th jubilee and in the next 12th years its dissolution and extreme individualization occurs. In the next three 12- year cycles everything repeats itself. Thus, the researcher revealed the existence of a 36-year period, each of which begins with a year of revolutionary leap and often with the coming to power of the next ruler.

Finally, he combined four 36-year cycles into a period of 144 years - provided that their sequence repeated the principle of the structure of the day: morning-day-evening. This period of 144 years was taken by him as a module for the construction of any state education.

The chronicle of the history of the state of Russia goes back to these and to a number of famous dates of significant events of the 20th century, which consistently differ by 12 years (for example, 1953, 1941, 1929, 1917, 1905, etc.).

But because of a wrong module selection the table has strong errors. The correct system can be seen in the module of 108 (three 36-year cycles or nine 12-year cycles). The number 108 is according to the Russian scientist S. Proskuryakov "the global constant at least of the solar system". He showed this with many examples of space, time, dimension, organic world. The number 108 is significant in Russian measures of length. For example, one verst is about 108 x 10^{-2} km and one thousandth of a verst - 1.08 m - is equal to half a thread. 108 is also a sacred number in Buddhism, Lamaism, and the religion of ancient Egypt. Also in many shaman and witch rituals, spells, mysterious and mystical constructions the number 108 is used - if not as a whole number, then also in its facto- ren: 9 x 12.

Apparently, the number 108 contains the reflection of the quantitative and quali- tative essence of nature, the most harmonious constructions of its structures and phenomena. We can assume that this numerical module is the most productive to observe the span of existence of the whole humanity and especially historical processes. By using this mo- dule, we find that the system of statehood in Russia contains a certain element of peace, since it has, so to speak, put the entire model of human life behind it until 2001.

The history of the state of Russia is exactly half of the life of a zodiac sign. For 25920 years the solar system has passed through the 12 zodiacal lines. In each constellation the Sun has remained for 2160 years. Half of this time, i.e. the last 1080 years, during which the Sun has been in the constellation of Fi- sche, for some reason accounts for the entire history of Russian statehood. Until the moment of entering the next constellation of Aquarius.

However, the actual length of the state of Russia is 48 (4 x 12) years longer. How can this be? We are used to see the course of history in the continu- ous passing of sections. These sections turned out to be standardized (108 years), but sometimes there are short-term deviations, i.e. delays in the main course of history.

According to the researches of Kvasha, each initial period for all state formations of Russia begins and proceeds under the sign of the Snake. However, the following periods can begin already under the sign of the bull or rooster, i.e. with a glide of 4 or 8 years.

The flexitime

The most important events in history take place, as said, every 12 years. And all events generally within 108 years. But when such a period ends, the next important date in history does not come 12 years later, as one would expect, but already after 8 years or 4 years.

Further dates follow as expected in 12 years, but already start from this supposedly prematurely arrived date. An analysis of the events in these 8 or 4 years shows that the date is not premature, but represents a delay link in the main course of history.

There were only three such sliding periods:

- *The years 1089 - 1097 of Kievan Rus.* The climax of the Yaroslavichi princely dispute with incredible peacekeeping efforts of Prince Vladimir (henceforth Monomakh). Only in 1097 the 1st Prince's Day of the transitional period put an end to this instability.
- *The years 1533 - 1541 of Moscow Rus (Grand Duchy of Moscow).* After the death of Vasily III (1533 A.D.) the Grand Government coincides with the mother of the future Tsar Ivan IV, Elena Glinskaya. From the second four-year period (since 1537) the boyars actively bring unrest. 4 years later, in 1541, the Crimean Tatars went to Moscow, the future king was eleven years old, practically nothing depended on him. But it is astonishing how the fate behaves: The campaign remained unsuccessful for the attackers. How can this fact not be understood as a sign of the beginning of a new period in the history of Moscow Rus! The tsar was given an indirect authority, which appreciated, and already after two years he dealt with the boyar- ters.
- *The years 1761 - 1765 of the Russian Empire.* The death of Elizabeth Petrovna in 1761 and the beginning of the reign of Peter III. After the death of Peter III, Catherine II assumed the throne in 1762. This was not a legal act: the legal heir to the throne, Ivan Anto- novich, languished in the fortress of Schlüsselburg. At the beginning of the next four years and in the period of the Russian Empire (1765) Catherine will eliminate the last competitor.

The sliding of history in each formation of states shifts the moment of the beginning of the next period from the year of the snake by one or two to four years.

After the end of the last period on the way to a new state formation, which was pre-ordered, so to speak, at the beginning of the year of the snake, corrective glide phases seem almost like a rescue operation. Note:

- *The years 1313 - 1317*. The extreme uncertainty of judgments especially in the Great Government and the future of Russia as a whole. It seemed that in the four-year dispute between the princes Yuri of Moscow and Mikhail of Tver, the latter had more chances to become Grand Duke. In this case Russia could become not Moscow, but Tverskaya. The realization of this event depended on the outcome of the battle, in which the Prince of Tver could achieve another (most likely decisive) victory over Moscow.

  The persistence with which Yuri of Moscow, as if hypnotized, strove for power is surprising and hardly explainable. Even more surprising is the willingness of Mikhail of Tver, who refused to fight and concluded a treaty to settle the dispute over the Great Principality. Didn't he know that in this case his opponents would have all the chances? After all, the independence of the Prince of Tver Khan Uzbek irritated for a long time. As a result, Prince Michael of Tver did not return from the Great Horde. Since 1317 the history of Moscow Rus begins and Yuri of Moscow becomes the founder of the ruling Moscow dynasty. Twelve years later Ivan Kalita receives the great dignity, but no longer rules in Vladimir, and from this mo- ment Moscow becomes the seat of the Grand Duke and Metropolitan, the po- litical and spiritual capital of Russia.

- *The years 1649 - 1653.* Since 1649 revolutionary changes have been brewing in the spiritual life of the Grand Duchy of Moscow. At the behest of Alexei Mikhailovich, ecclesiastical rites and services were aligned with the Greek rite adopted in the South Slavic countries in order to strengthen ecclesiastical-political relations with them. In the future, this was to unite the Orthodox churches of Ukraine and Russia under the auspices of the Moscow Patriarch.

However, a significant part of the great Russian clergy and society was not ready to accept these innovations, and there was a split in the church. Since 1653 the reform of the new patriarch Nikon began. In Ukraine, the struggle for liberation from Polish rule grew. Hetman Bogdan Khmelnitsky appealed to the Russian tsar in 1649 with a request to take Little Russia "under his defense". In 1653, after the reappraisal, the Zemsky So- bor declared "the decision to ac- cept Little Russia under royal power and to start a war for it," which happened on January 8, 1654. This event was the first milestone of the Russian Empire.

- *The years 1873 - 1881, the* last years of Alexander II's reign. In connection with the failures in creating a mass movement and the resulting lack of confidence in the likelihood of a general popular uprising, individual representatives of the people decided to overthrow the political system by killing the king. In the years 1880 - 1881, eight assassination attempts were made on Alexander II, but the king seemed invulnerable. The explanation is obvious: the time had not yet come. But on March 1, 1881, after a bombing had blown up his carriage, he, without listening to persuasion, stubbornly walked into the crowd of spectators, in which there was still a terrorist.

  And from that moment on, the history of Russia began its last journey into the former 108-year state unity with the na- men "Soviet Russia". So the continuity of the following 12 years was obviously only within these 108 years. The role of the four sliding years is the necessary correction. Thus, during internal transitions, there are various conflicts, unrest around the throne or in the struggle for the throne itself. It seems that the outbreak of accumulated rejection and negative sentiment was deliberately provoked by sudden weaknesses in the government.

What happened next is compared to the processes that cause earthquakes. If our planet were alone in the space near the sun, enormous internal tensions would constantly accumulate in its depths, the discharge of which would lead to an incomparably greater destruction than that already known to mankind. The daily tidal waves of the moon and the gravitational effects in times of confrontation of the planes, however, lead to a more frequent and therefore less strong discharge of tensions of the earth's interior in the form of earthquakes.

It is possible that an increase of the negative in analogy to earthquakes is triggered by a reality which is outside of history and corrects its course. The same comparison arises in the interpretation of sequential events. In moderate transitions, the sliding only decides the fate of the ruler without changing the statehood. And he himself actively participates in it. At the slippery slope the fate of the ruler is not the main thing. The main thing is predetermined, in future events the pioneer plays either the role of an extra or a puppet, depending on the si- tuation.

But only until the end of the sliding period. It seems that the main actors of the sequences themselves are partially familiarized in advance with the scenarios preparing for the new stage of statehood. At the same time, they still have clear ideas about their role. Is it because their actions often seem to develop a program corresponding to the predictions of destiny, which previously manifested themselves only in the form of certain influences of prophetic character?

Consider, for example, that this effect accompanied the ceremony of the accession of Alexander II. Both times (at the oath of the tsar and later at the coronation) a huge bell R. from the Kremlin bell tower was broken by Ivan the Great. A total of 17 people were killed. Is it possible to see these cases as a bad omen? So called the then Moscow Metropolitan Philaret.

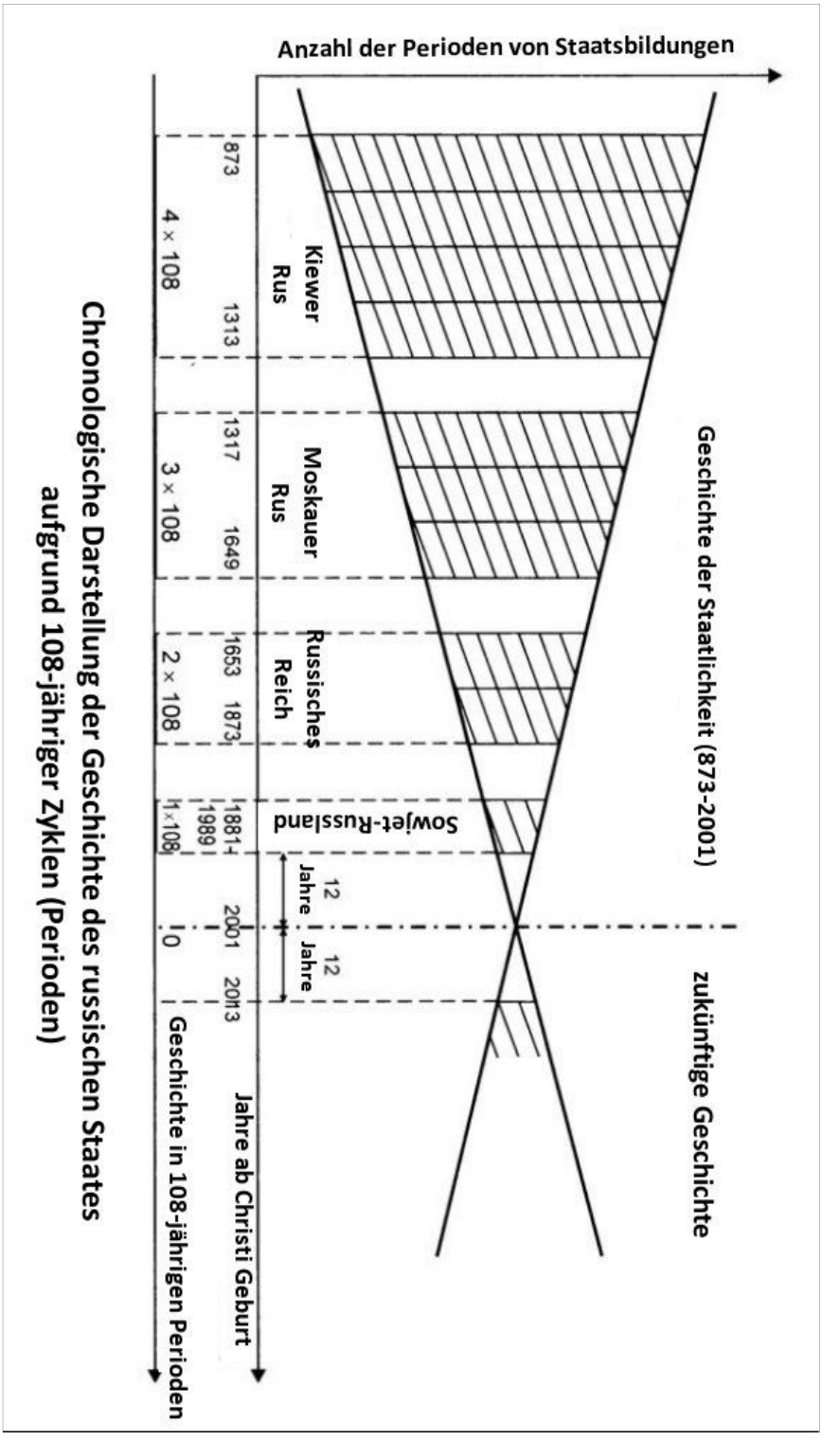
Russia: the completion of structural state history, historical collapse and ... resurgence?

History in the last 108-year period Russia has completed like a pole- high jump: Concentration (the first 36-year cycle 1881 - 1917, peak (the second 36-year cycle 1917 - 1953, the highest point without stan- ge, fall and landing (last 36-year cycle 1953 - 1989).

The last crossroads in the history of the state of Russia, unlike all three previous ones, contains a full 12th anniversary. Since the last phase of the state history was overcome in only a period of 108 years, the internal transition naturally became like a prologue to a crossroads. And after the events of 1989, 1991 and especially 1993, probably already in the first four years (1989 - 1993) all the negative of that period was buried. It was everything that should characterize the inner slide: feuds, unrest and blood - everything that made the struggle for the throne different than before. And a boundary pillar was provided: December 12, 1993 - the day of the birth of the Constitution of the Russian Federation.

From this point on, it would be appropriate to speak of a new period, as is customary after the internal transition. But the time was not yet there: the historical sliding phase was not yet over, so the confusion behind the border fence resembled another crossroads (for the next 8 years).

If this had been an ordinary crossroads, one would have expected at the end that this would traditionally become a milestone. It seems that it already exists - the one that signaled this with two dozen words, "Milestone for the 12th anniversary!" And the rest of the way as a (new) crossroads: Political, economic, ideological confusion (sometimes with crisis situations and pre-crisis levels, even for the ruler), corrupt government and an exemplary wave of banditry and terrorism, deepest upheavals of society, up to internal wars, a catastrophic demographic situation, the unprecedented impoverishment of the people at the expense of skillfully executed operations to bring the share of state-owned property under the control of high-ranking "benefactors" and their immediate surroundings.



Chronologische Darstellung der Geschichte des russischen Staates aufgrund 108-jähriger Zyklen (Perioden)

Киевская Русь					Московская Русь			Российская империя			Россия — Советская империя	
I цикл	II цикл	III цикл	IV цикл		I цикл	II цикл	III цикл	I цикл	II цикл		I цикл	
873—909	981—1017	1097—1133	1205—1241		1317—1353	1425—1461	1541—1577	1653—1689	1765—1801		1881—1917	
Олег	Владимир Святой	Владимир Мономах. Мстислав Великий	Усобицы Всеволодовичей. Нашествие тюрков		Иван I Калита, Симеон Гордый	Василий II	Иван IV Грозный	Алексей Михайлович, Федор Алексеевич, Софья. Воссоединение Украины с Россией	Екатерина II Великая, Павел I		Александр III, Николай II	
909—945	1017—1053	1133—1169	1241—1277		1353—1389	1461—1497	1577—1613	1689—1725	Александр I, Николай I		1917—1953	
Игорь	Ярослав	Усобицы Мономаховичей, Святославичей. Падение великого княжения Киевского	Ярослав Всеволодович, Александр Невский		Иван II, Дмитрий Донской	Иван III	Федор Иванович, Борис Годунов	Петр I			В.И.Ленин, И.В.Сталин	
945—981	1053—1089	1169—1205	1277—1313		1389—1425	Василий III	Филарет, Михаил Федорович	1725—1761	1837—1873		1953—1989	
Ольга. Святослав, Ярополк	Изяслав, Всеволод. Усобицы Ярославичей	Андрей Боголюбский, Всеволод Большое Гнездо. Разделение Киевской Руси и создание Галицко-Волынской Руси	Усобицы Александровичей		Василий I			Екатерина I, Анна Иоанновна, Елизавета	Николай I, Александр II		Н.С.Хрущев, Л.И.Брежнев, М.С.Горбачев	
	1089—1097		1313—1317			1533—1541	1649—1653	1761—1765	1873—1881		1989—1993—2001	
			1-е «перепутье»				2-е «перепутье»		3-е «перепутье»		12-летнее «проскальзывание»	

This list of Russian state history remains without German translation.

In the history of the state of Russia, this is the first time: it is precisely known the date of a fateful milestone - 2001. In that year, the crossroads ended and a new period began. Why did the milestone not fit this date?

Because the next stage of statehood must begin and end at the same time! Its duration is determined by the product O x 108 years according to the determined system, therefore it is equal to zero. What could this mean: Will the history now take place or not?

The consideration of this is similar to the consideration of the state of matter in the funnel of the black hole in space, especially in the mo- ment when it passes through a similar zero. Scientists call this phenomenon a collapse. It does not promise anything good.

We will try to assess the state of our statehood with the help of a graphical construction of the development system (see previous figure). Between the crossing straight lines on the left side of zero are the decreasing time amplitudes of the number of 108-year periods corresponding to the successively existing state formations of Russia. In the graphical representation, the positions of the amplitudes correspond to the beginning years of the state formations, the length of which includes twelve years of historical sliding for simplicity. As can be seen from the graph, there is a "congestion of time", which many researchers are now talking about.

Not only Russia, but all of humanity is facing a fundamental transformation. What will this transition point be? Nobody knows the answer to this question yet. Is there perhaps a perspective for the development of our statehood in a positive direction to the right of zero? Will it turn out that the historical experience we had in 2001 was negative?

What important component did people experience when they had to overcome the vicissitudes of a negative history?

If the chart reflects the true course of our history and thus predicts the future, then after a zero period of statehood, i.e. since 2001, a new twelfth transitional jubilee began until 2013. And from that year, according to plan, a first milestone of a qualitatively new state formation with a duration of one period, i.e. 108 years, can be expected.

By the way, in some prophecies made on scientific basis 2013 is the beginning of the Golden Age of the whole mankind - or only of Russia. For example, according to the cyclic history of Russia (from 812 every 400 years) of the "Russian Nostradamus" by V. Moshkov from 1907 - 10, the third cycle ends in 2012, after which the golden age of the new cycle should begin. And according to the instructions of the sacred calendar of the Maya a new stage in the history of mankind begins on December 22, 2012.

So Russia will definitely enter ideal according to the schedule of its development!

Summary

The icosahedral-dodecahedral structure of the Earth revealed here allows us to rethink the accepted structure of our planet. Its discovery may also have a number of practical applications. Perhaps some sections of the presented theory seem contradictory, but the authors of IDSE have always emphasized that this theory is open to discussion and further development. Therefore, it is necessary to continue the comparison of IDSE with the data of all earth sciences in order to further elucidate the laws of the energy grid and bring them to application.

At the present stage of theory building, we can draw the following conclusions and outline the ways of their further development:

1. Ancient cultures and civilizations had an idea about the triangular-pentagonal system of the Earth, its subsystems; they even noted its starting and ending point with the complex of the pyramids of Giza. he-nomena indicating such knowledge are concentrated near the IDSE nodes and their subsystems. The ancients had an idea about the module "Nine" of the space-time system. In the modern search for contacts with extraterrestrial civilizations it may be useful to apply this module in the frequency of radio waves, in the choice of the time cycle and the nodes of the spatial grid of the Earth cosmos. Archaeological investigations should be carried out near the nodes where traces of ancient civilizations can be found (and possibly contacts with extraterrestrial civilizations).

   Another important field of research is the study of ancient texts (especially the Bible), sagas and legends, the philosophy of ancient civilizations and their comparison with modern cosmology. The comparison of the structures of the human body with the energy grids of the cosmos can clarify the mutual influence.

   The study of the Russian alphabet and words based on it can initiate a new science - energy informatics, which will directly study the laws of the Earth's energy network.

2. It is probably time for a new science - geo-cyberne- tics, which could study the "organism" of the entire planet. The activities of the IDSE are complex - as if this were a living thing. Some nodes of the system "flare up" while others almost do not manifest, and vice versa. There is evidence that there is a certain rhythm.

   In geophysics, the IDSE model could be a qualitatively new method for studying the Earth. At the same time, the mechanism of geomagnetism and other important geophysical phenomena will become clearer and more comprehensible, focal points of the greatest geophysical and tectonic activity will become known. The installation of IDSE geophysical stations will provide valuable information about our pla- ne. In addition, IDSE will also be useful in space geology for predicting mineral deposits and earthquakes.

   A thorough study of all geophysical features of sys- tem nodes can lead to their use as natural landmarks and "beacons" for aviation, astronautics, and navigation. On the basis of IDSE, a new, more accurate cartography can be created. It is not excluded that dangerous areas of the planet (topo- graphically and temporally) can be identified in advance, when from time to time there is a danger of disappearance of ships and airplanes or serious malfunction of electronic equipment.

   There is a tantalizing research direction - global weather forecasting. The system identified can help meteorologists decide the mysteries of the Earth's atmospheric behavior so they can make more reliable weather forecasts. Systematic observations allow for more efficient early detection of hurricanes. Consideration of the grid is also important in clarifying the causes of the increasing greenhouse effect of the atmosphere.

   The network will help elucidate the causes of oxidation, salinity, and other soil changes and investigate the concentration and mi- gration laws of chemical compounds present in soil and water due to human activities. It was found that chemical compounds in soils can migrate to nodes as electrodes. In a series of framework nodes, hin-

purity anomalies" have also been detected: No harmful chemical compounds accumulate in them, including DDT, which is found even in Antarctica.

3. The IDSE energy framework is a previously unknown physical factor that has a strong influence on the ambient biosphere. It makes it possible to identify previously unnoticed patterns, relationships and phenomena.

   It appears possible for the first time to match the nodes and subsystems of the IDSE with statistical data on the scale of regions and the yield of individual crops, to draw conclusions on the weight gain of farm animals, egg production, the behavior of wild animals, the occurrence of medicinal plants, fossils and unique plants and deeps, the prevalence and activity of agricultural pests and diseases, locations of the most active manifestation of mutation processes etc. On this basis it is possible to determine the most rational location of agricultural land complexes. The knowledge of the geometry of the energy frame can improve the efficiency of sea fi- reering and contribute to the solution of problems in the study of the oceans.

   However, environmental protection measures should also be taken: First, we should not allow the centers of plant and animal species located at many sites, as well as archaeological complexes and anthropological remains, to be lost as a result of ill-considered production activities. The economic impact on the hydrosphere and atmosphere in the nodes should be extremely cautious to avoid disturbing the natural bonds. Observation stations and integrated geographic hospitals must be organized in the nodes in order to study the natural geo- sets in them. In our country it is especially necessary to strengthen the environmental protection of Lake Baikal and its southwestern territory (up to 1000 km in diameter), because here, in the middle of the IDSE triangle, lies a powerful cen- trum of speciation, development and distribution of flora and fauna, possibly the source of life for the whole of North Asia.

   The stimulating effect on biological processes may also affect a number of aspects of human activity in the environment - with the consequence that a comparative analysis can be made, for example, of how the educational process in educational institutions is

and a number of other institutions in regions that are assigned to active IDSE nodes. If positive results were available based on the processing of sta- tistical data, this research area could be subjected to a more in-depth analysis.

It is interesting to compare the data of disease foci and recovery in a number of areas with IDSE subsystems. According to researches of Goncharov-Makarov-Morozov, some nodes of subsystems coincide with the places of healing of diseases, radon water and improving microclimate. On the other hand, places of suppression of life are also known. At the subsystem level, as with the main IDSE system, there may be interesting coincidences in atmospheric, meteorological, and temperature maxima of regional significance. This in turn might suggest a more rational distribution of residential areas, businesses, educational institutions, hospitals, and sanatoriums, taking into account all the positive and negative influences of the atmosphere, hydrosphere, and earth's crust. It is also interesting to compare the accident black spots with the location of the subsystems and, in case of correlation, to place warning signs on the roads.

We hope that this book will be an important step in understanding the world in which we live, and that, having now summarized the research on this topic, it will become the basis for further work, to which all interested readers are invited.©

Applications

Attachment 1

Earlier geocrystalline theories

With the development of geosciences in the 19th century, various researchers began to notice an order in the structure of the Earth's surface, and at the same time a wave of assimilation of the plane to regular space bodies developed.

The great French scientist and geologist *Élie de Beaumont* should be rightly credited as the pioneer of this new direction in the study of the Earth, who in 1829 expressed the idea that the globe assumes the shape of a dodecahedron during cooling and solidification. After Élie de Beaumont had identified and analyzed 85 different mountain systems of the planet, he proposed that all elevations of the same direction belong simultaneously to the same system and that, on the other hand, all systems are of different ages. By imposing different regular polyhedra on the surface of the planetary sphere and comparing their different overlaps with the mountain ranges of different systems, he found that "in all sections of the earth's surface in multiples of whole and regular numbers there is the subdivision into 12 proper pentagons. This, in turn, represents the successful combination of most subdivisions and minor contours, and in this respect clearly surpasses quadrilateral symmetry and every other combination."

According to the observations of Élie de Beaumont, all mountain systems lie on great circles "which intersect on the surface of the globe in such a way that their points of intersection mark the vertices of the inscribed pentagonal dodecahedron."

In his article "A note on the systems of mountains", published in 1852, Élie de Beaumont gives the coordinates of the centers of the pentagonal surfaces. Connecting these centers, one obtains the icosahedron. I. Shafranovsky and L. M. Plotnikov, among others, write about the icosahedron of Élie de Beaumont:
"The twelve faces of the latter represent the most stable areas of the Earth's crust. Thirty edges coincide with the main mountain ranges and correspond to less stable areas exposed to crushing and fractures. The latter reach a maximum at the twelve corner faces of the icosa- eder, each of which has five edges." D. I. Gordeev also writes about the icosahedron. Thus, Élie de Beaumont is responsible for the construction of the combined dodecahedron- icosahedron model, not for the separate view of dodecahedron or icosahedron, as evidenced by the vast majority of publications on his works. Unfortunately, this construction differs considerably in position from the IDSE, although it would have been difficult to expect a coincidental identity, since the model was created according to only one parameter (position of edges and mountain systems) in different ages.

But one should not underestimate the enormous amount of work done by Élie de Beaumont. There is a reasonable assumption that the idea of the similarity of the Earth to the dodecahedron- icosahedron was already in the possession of scientists before the official comparisons began. But all the work in that direction was mainly limited to finding the only correct position of the lattice of these polyhedra (or first of all of a dodecahedron) on the surface of the Earth. Perhaps the primary idea was inspired by the ancient worldview; Élie de Beaumont understood that this information was too serious to ignore. Thus, in future constructs, the mountains could be moved, the primary idea of the shape of the earth and the edges and mountain systems themselves - as
"Ariadne's thread" - be further developed with his help. But how could Élie de Beaumont explain the origin of this idea? Would he find understanding in the scientific world? The recognition of ideas from antiquity can also lead to an unwanted echo.

The work of Élie de Beaumont on the assimilation of the Earth to a regular polyhedron is surprising. The first serious construction and immediately the most difficult combination of Platonic solids. It can be said that it was an unheard-of undertaking, since no researcher before, as in the next 100 years, even approached such a complex construction. Another "clue" that Élie de Beaumont tried to work out were
"fifteen starting rounds". In the past, among the North American Indians of the Sioux tribe, there were sacred balls, the so-called models of the "fifteen handmade primordial earths". These spheres are covered with 15 large circles, so that their intersections result in 120 identical triangles. Now pay attention to the order of Élie de Beaumont's construction: "To the fifteen initial circles he adds a series of additional ones that corresponded to the mountain systems ..." and gradually brought their number to 85. Of course, it was not easy to find the only correct position of the polyhedron, and in the end Élie de Beaumont stopped at one of the options - but it seemed to him that he had found what he was looking for.

Also at the end of the 19th century hypotheses about the tetrahedral structure of the upper shell of the solid Earth spread. The first to do so were probably the English geologists Loftian Green and Richard Owen (1875). Based on the observed patterns in the structure of the Earth's surface and on the theory of compression during cooling, they created a tetrahedral model of the planet in the form of a regular tetrahedron. Of all solids with the same surface area, this polyhedron has the smallest volume. They also referred to Ferborn's experience with a cylindrical tube that was deformed by compression, taking the shape of an equilateral triangle. Thus they arrived at the general assumption that a hollow sphere deformed into a tetrahedron under the same conditions. (The ingenious experience of S. Lalleman confirmed this assumption:

A rubber ball, from which air was gradually drawn, assumed a shape close to a tetrahedron. The same experience was successfully repeated on glass balls softened by heat, whose negative pressure was created in them). The terrestrial tetrahedron, for which L. Green stood, had the peaks of the South Pole, the Alps, the Himalayas and the Rocky Mountains.

In 1882 the opinion of L. Green was joined by *A. Lapparan*, who also believed that the tetrahedron is the shape to which the earth's crust deforms, thus fundamentally opposing the pentagonal system of Élie de Beaumont. A. Lapparan and following him *T. Arldt* (1905) combined three edge angles of the northern hemisphere with the centers of three shields, the Canadian, Scandinavian and Siberian, and the fourth angle with the southern pole; in the representations of L. Green three meridional surfaces are outlined by the axial lines of three continents of the southern hemisphere. S. Lalleman also wrote about the slight tetrahedral deformation of the geoid,[17] the tetrahedron being the shape "which the earth's crust represents as a minimum reduction." However, new papers on this theory seriously oppose such theories, both in terms of compression and expansion processes.

Also *Marcel Bertrand* started from the very doubtful assumption that the position of the edges of the tetrahedron on the globe changed from one geological period to another, and built a tetrahedral system based only on modern volcanic phenomena, connecting all volcanic activities indicated in historical times. M. Bertrand considered these, when they turned out to be gewun- dene lines, like deformed great circles. These six large circles mark with their intersection two tetrahedra with opposite bases, both being irregular and together forming a double pyramid.

17 *The geoid is an idealized figure of the Earth that does not take into account the mountains and oceanic de- pressions.*

With the accumulation of knowledge about the disturbances of the Earth's crust, the geographic conditions for fitting the planet to regular geometric bodies were replaced by geological ones. Thus, in 1898, the French geolo- ge *Michel Levy* proposed his tetrahedron model of the Earth. The upper edge of his tetrahedron, which was almost perpendicular to the planet's axis of rotation, is bounded by three edges, fold mountains of different ages: "The first zone of the Tertsinskaya folds [Paleozoic] extends from the Gulf of Mexico to Asia Minor, the second zone from the Alpine folds [Cainozoic] to South Asia, the third line connects the Gulf of Mexico with the Solomon Islands and lies entirely in the Pacific Ocean. Three meridional ridges, converging near the South Pole, can be seen at the Andes Cordillera, the Ethiopian fault rift, and the eastern mountain range of Australia.

M. Levy suggested that large circles on which the edges of the tetrahedron lie "must be hinges for movements of the Earth's crust and therefore must coincide with geosynclii- nes[18] must coincide with geosynclines where folding zones occur." This coincidence is also advocated by *Emil Gustav Og*, who states that "the folding zones coincide with the position of the Mesozoic geosynclines ..." He outlined them there in person.

Some scientists criticized the hypothesis of M. Levy for the fact that his model consisted of non-age folded belts. This is true, but more remarkable are the reflections of E. Og on the "primary te- traeder": "If we accept the undoubted fact ... that the position of mountain systems becomes increasingly complicated in the course of geological time, we must admit that it is better to build a tetrahedron based on the position of systems older than alpine folds."

18 *A geosyncline is a narrow and deep depression of the Earth's crust at the bottom of the ocean basin, usually bounded by faults and filled with thick layers of sedimentary and volcanic rocks. Complex fold structures form over time as the crust deforms. This is usually observed in areas where the oceanic crust becomes continental.*

For example, you can take the disposition of the folds from the end of the Paleozoic or even the antiquity and still have great chances to approach the primary tetrahedron ..." It is consistent with IDSE theory that the Earth first entered geometrically ordered life, i.e., became a planet, in the Proterozoic. In its molten interior began the process of crystallization of the inner core. The form of the first geo-crystal is the tetrahedron, the simplest of the isosceles space bodies.

One hundred years after Élie de Beaumont, in 1929, the Earth model in the form of combined polyhedra with symmetries of five - the dodecahedron-iko- sahedron - was proposed by the Russian researcher Stepan I. Kislitsyn. Unfortunately, the scientific world does not know any of his personal publications. The first article about his research was published only in 1976 in the journal "Chemistry and Life" in response to the article of the authors of IDSE, but Ste- pan Iosifovich was not destined to see it. The second article was published by the famous Russian crystallographer I. V. Belov.

From these articles it follows that the crystal-like model of the planet is mainly due to the influence of Élie de Beaumont's ideas. However, the coor- dinate reference of polyhedra is different, which is more suitable for the IDSE mo- del, where two vertices of the icosahedron are combined with the geographic poles of the planet. This position of the icosahedron, as shown in the articles, was experimentally determined by Kislitsyn based on an analysis of the location of the world's largest diamond deposits, which are believed to be confined to the vertices of this polyhedron, and "formed about 400 - 500 million years ago when the geosphere was composed mainly of basalts. Thereby the geododecahedron formed to the geoikosahedron. It is remarkable that the transition from one crystalline form to the other was not complete, and the geododecahedron ... proved to be inscribed in the lattice of the icosahedron.
..., by lowering the vertices of one geocrystal and raising the vertices of the other."

He foresaw the deposition of coal, oil and diamonds in the depressions. The tectonic activity of the planet is a consequence of the gradual rearrangement caused by the transformation of one polyhedron into another.

The opinion of the well-known crystallographer, Academician A. V. Shubnikov: "The hypothesis that the globe assumed the shape of a regular polyhedron during cooling before approaching the spherical shape is quite natural. If one accepts Kislitsyn's hypothesis that the globe is trying to assume the shape of a regular polyhedron as quite lawful, I think it is absolutely impossible to accept the globe as a single crystal to be considered in the usual sense of the word."

A few comments on the content of these two articles:

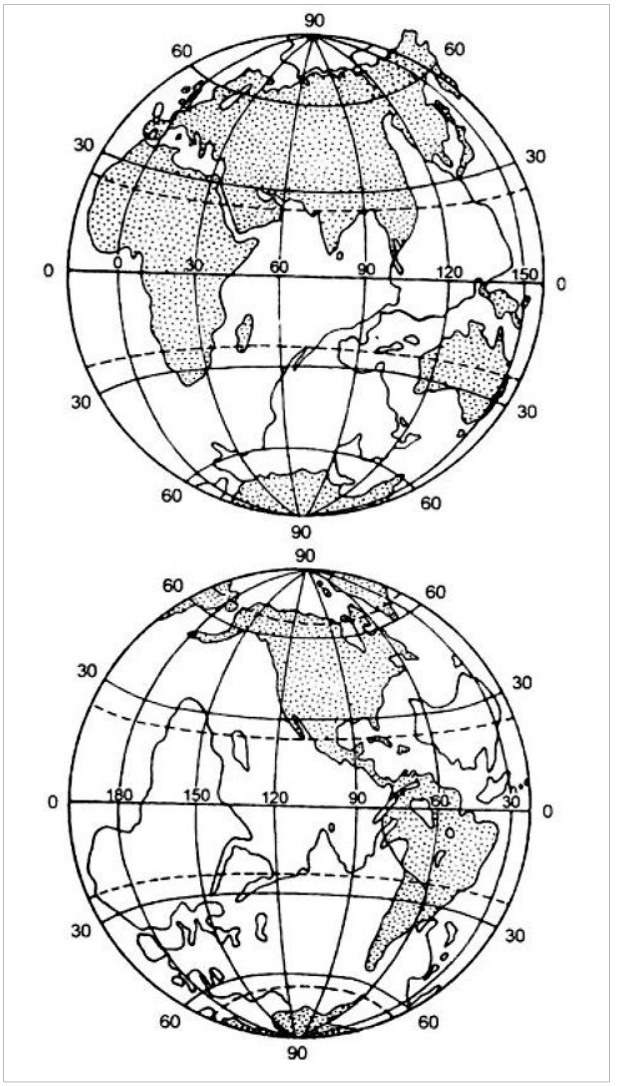
First, as mentioned above, Élie de Beaumont built his lattice not from a pentadodecahedron, but from a combined icosahedron and dodecahedron. In this respect, there was no novelty in Kislitsyn's work. The novelty lies in the orientation of the lattice: the combination of two icosahedron vertices with geographic poles. Secondly, according to Kislitsyn, it is not clear what transition the geosphere made 400 - 500 million years ago. In one place the academic Belov states that "the geododeca- eder passed into the geoicosahedron". At another place it sounds the same: "In crystallography we often deal with the degeneration of the icosahedron into the Archimedean cuboectahedron (sometimes to the end, sometimes not) ... The layout presented by Kislitzyn fully reflects this transition." Third, in the Kislitsyn hypothesis, as in the case of other earlierexplorers of this subject, only the Earth's crust is the target of guidance for the symmetry of re-gel bodies. Fourthly, the mechanism of this process is considered to be compression during cooling. This is the essence of the main theory of Élie de Beaumont. And fifth, there are serious reasons to believe that the location of the Kislitsyn lattice is not the result of observations of first diamant deposits and that this idea was attributed to the author only after his death.

Goncharov-Makarov-Morozov met Stepan Iosifovich in 1974, when he had only been alive for two years. He responded enthusiastically to their work, which was in full swing at the time, and sincerely hoped "that we will show them now!" Unfortunately, these plans did not come to fruition. Critical minds tried to stop these studies and then also hindered the authors of IDSE.

Other explorers of the quasi-crystal structure of the Earth are Russian scientists. Leningrad University professors *Boris Leonidovich Lichkov* and *Illarion Illarionovich Shafranovsky* developed "an idealized geo- metric model in the form of a combination of two equally developed regu- lar tetrahedra" in 1958. Both tetrahedra seemed to fit into the sphere in such a way that the two opposite circumpolar surfaces were perpendicular to the rotation axis of the planet. They themselves were shifted 180° against each other, whereupon the vertices of these surfaces were connected to two adjacent ones each. Six more new equatorial surfaces, smaller than the original two, were formed. Thus the "auxiliary" octahedron Lichkov- Shafranovsky was created.

This model reflected very satisfactorily the visible features of the surface of our planet: a much larger area of continents in the northern hemisphere and the oceans in the south, the triangular shape of the continents and oceans (the arrangement of these "triangles" seems to be opposite: at the continental bases in the north, at the ocean bases in the south), and their antipodality (i.e., a section of the ocean area is at each continent).

B. L. Lichkov accepted Schmidt's theory about the formation of planets and held to the dogma about the origin of planets from a gas-dust meteo- rite cloud, but paid great attention to the possibly intruding asteroids.



The antipodal position of continents and oceans

He believed that the formless or angular shape of the original cluster of cosmic matter could be called a planet only when the main mass of crystalline matter, its component, "spreads out" and the shape of the cluster approaches a spheroid. The emergence of tectonic processes characterizing the struggle of adhesion forces (crystals) coincides with the phase of "spreading". B. L. Lichkov suggested the following:

"When an extremely large asteroid passed over to the planet ..., it went through a phase in which its shape approached a pentagonal dodecahedron or tetrahedron, only after which it changed into a spheroid." 400 - 500 millio- n years ago, the Earth, as an already formed planet, could not take on the symmetry of a polyhedron. Everything that has been found, has been created before this time.

Lichkov then came to an important conclusion: "Symmetry features of our planet associated with its gravitational field are expressed not only in the solid body of the Earth, but also in its liquid and gaseous shells: they necessarily have the same symmetry. These shells are not only composed of air and water, but are in some sense symmetrical." This theory, however, has weaknesses.

First, according to Lichkov, the interaction of all the outer shells of the plane- ten (i.e., including the jonosphere) can be explained by the violation of the lithosphere (although he also allowed for the influence of the mantle). But then it is not quite clear to him who and what causes symmetry. All this because the "builder" of symmetry is a gravitational field. Is it so? Is it not the crystallization field of the "living" geocrystal? Is it a mechanism with a large range? And in which relation is the gravitational field itself to the crystallization field?

Second, where and how did this "big asteroid" form? Where is the "Workshop" for the production of crystalline substance blocks? Finally, it is known that the composition of the "flying blocks" is similar to the composition of the inner shells of the planets.

About the manifestation in the relief of the Earth, the symmetry of the cube, which has the largest number of symmetry elements, spoke *Alexey Anatolyevich Shulga*. According to his observations, "if we take the centers of the sides of the cube describing the ball, the centers of the continental massifs on the equator and 45° away from these centers we get to Africa and South America, on the middle ridge of the Indian Ocean and in the east of Indonesia, on the deep sea trench separating the seabed itself from its edge.

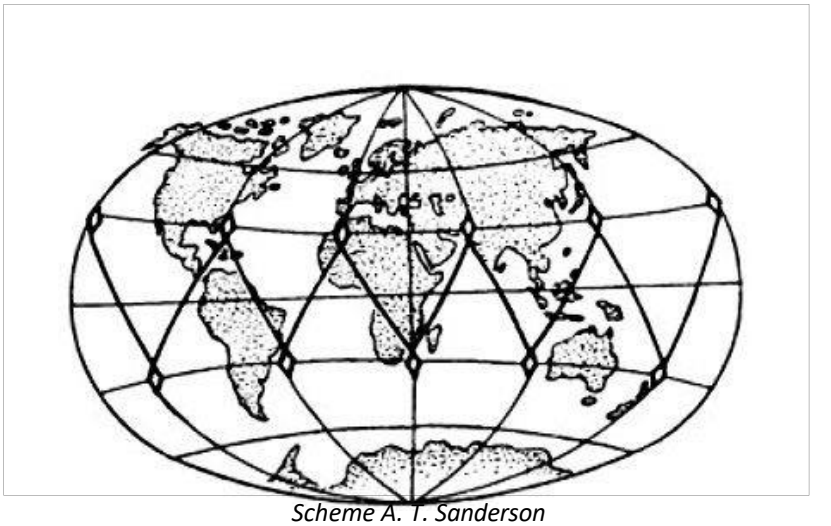
The face centered in South America is similar and symmetrical to the face centered in Indonesia, and the African face is antipodal and antisymmetrical in the Pacific. Note that Africa is the highest continent and the Pacific is the deepest and most extensive ocean. The upper north face with the bottom of the Arctic Ocean is antipodal and antisymmetric to the south face with the rise of Antarctica. In each face one finds a coherent, hierarchical succession of structures, from larger to smaller and smaller." However, A. A. Shulga did not explain the possible reasons for such patterns, as they were merely the result of the action of internal and external factors of the Earth.

In 1973 *Vitaly Kabachenko's* article "Invisible Connections Open" and *V. Neiman's* commentary "The Grid of the Universe" were published in the newspaper "Technology and Youth". V. Kabachenko noted the presence of the energy grid of the Earth, however, this frame represents a rectangular or oblique grid marked on separate areas, which are mostly small. In other words, the author has not created a scheme for the entire Earth, although he has uncovered similar patterns. Among them, some objects of the cosmos, in the corona of the Sun, on the surface of Mars and the Moon. In addition, he suggested the presence of subsystems in the identified grids. About the same regularities in localization of craters and mountain chains on the Moon *M. Shemyakin* wrote in 1969.

A fundamentally different approach to the search for a driving belt on the Earth's surface is to find and systematize not geological structures but anomalous regions of the planet. In the last three to four decades, several American scientists have worked in this direction, among whom the most famous is the professional biologist and inventor of the unusual, *A. T. Sanderson.* In the second half of the 1960s, he became seriously interested in the area of the Bermuda Triangle and, after some research, renamed it the "secret [or murderous] diamond".

Analyzing the events and phenomena that accompanied the tragedies in the region, the researcher got the idea to look for similar areas on Earth. The region south of Japan, the so-called "Devil's Sea," turned out to be similar to Bermuda. They were soon joined by the western Mediterranean region. These two areas are also very extensive and, according to Sanderson, look like a diamond. The longitude of all the diamonds from left to right is about 30 degrees and the latitude is about 10. Next, three similar regions were found in the Southern Hemisphere: "They are off the eastern shores of South America, South Africa and Australia. And they are within familiar boundaries."

In 1968, Sanderson hypothesized "destructive eddies." In his book More Things, published in New York in 1969, he found that in five out of six of these areas (with the exception of the Mediterranean).
"enormous eddies are created," but had to admit that "it is not yet recognized with certainty why exactly at these places the eddy currents of the heated water are created ..." "I had no choice but to ask engineers, electromagnetists and geophysicists for advice. When I got them together, I outlined the essence of the matter. In one week they mapped not six, but even ten points ... Five of them chose the northern hemisphere and five the southern; all the diamonds in the latitude are 72° apart. And each pair (the northern point with the corresponding southern one) lies on an exact sine curve ..."



Scheme A. T. Sanderson

This symmetrical distribution of unusual areas in relation to each other and to the equator required explanation. Sanderson believed that they "obey a definite physical pattern," since in all these areas "geo-magnetic anomalies, unusual air temperatures and pressures occur, where warm ocean currents meet cold ones, at the surface and at depth, usually in opposite directions." It turns out that these areas of the planet are shaped by nature according to a single known law.

With the publication of Sanderson's article in the magazine "Saga" in 1972, "Twelve Devilish Graveyards of the World", it finally became clear that the American researchers could successfully expand the structure of the "Triangle of the Earth" to the complex layout (Ten districts between the North and South Poles were added).

It should be noted that the nodes of the identified triangle system have latitudinal coordinates somewhat different from the coordinates of the "mysterious rhombuses". And unlike rhombuses, which are enclosed in latitudinal bands of 30 to 40°, they have fixed widths of nodes at 27 ° N and S. Such a double geometry should have an explanation: Either Sanderson had to change the edges of the rhombus, including the corresponding nodes of the system, or, without changing anything, he had to somehow underpin this coexistence. In any case, however, far more "non-comfortable" places outside the rhombus are known in the world than the active "catastrophic areas" (for example, at Cape Horn, the tip of South America, at the North American Cape Hatteras, Sable Island in the North Atlantic, in the Strait of Pas de Calais, Gibraltar, Malaga).

The correct explanation for these discrepancies lies in the fact that Sanderson at some point moved on to the emerging Goncharov-Makarov-Morozov theory, which already explained the physical mechanisms of Earth triangles, but where an accidental or deliberate error (given the ideological considerations of the time) was the opposite viewpoint.

Be that as it may, the very fact that a work is being carried out simultaneously at different ends of the planet suggests that the problem of finding the Earth's energy framework is overdue and requires its solution.

Enclosure 2

The estimated data of the energy grid

Table 1. Geographical coordinates of IDSE nodes

Edge number	Latitude		Longitude
	Primary empirical sky calculation	Geodetic calculation	
1	30°	31°43'02'',9 N	31°09' O
2	50° N	52°37'21'',5 N	31°09' O
3	58°30' N	58°16'57'',1 N	67°09' O
4	50° N	52°37'21'',5 N	103°09' O
5	58°30' N	58°16'57'',1 N	139°09' O
6	50° N	52°37'21'',5 N	175°09' O
7	58°30' N	58°16'57'',1 N	148°51' W
8	50° N	52°37'21'',5 N	112°51' W
9	58°30' N	58°16'57'',1 N	76°51' W
10	50° N	52°37'21'',5 N	40°51' W
11	58°30' N	58°16'57'',1 N	4°51' W
12	27° N	26°33'54'',2 N	67°09' O
13	30°	31°43'02'',9 N	103°09' O
14	27° N	26°33'54'',2 N	139°09' O
15	30°	31°43'02'',9 N	175°09' O
16	27° N	26°33'54'',2 N	148°51' W

17	30°	31°43'02'',9 N	112°51' W
18	27° N	26°33'54'',2 N	76°51' W
19	30°	31°43'02'',9 N	40°51' W
20	27° N	26°33'54'',2 N	4°51' W
21	12° N	10°48'44'',3 N	31°09' O
22	0°	0°	49°09' O
23	12° S	10°48'44'',3 S	67°09' O
24	0°	0°	85°09' O
25	12° S	10°48'44'',3 S	103°09' O
26	0°	0°	121°09' O
27	12° S	10°48'44'',3 S	139°09' O
28	0°	0°	157°09' O
29	12° S	10°48'44'',3 S	175°09' O
30	0°	0°	166°51' W
31	12° S	10°48'44'',3 S	148°51' W
32	0°	0°	130°51' W
33	12° S	10°48'44'',3 S	112°51' W
34	0°	0°	94°51' W
35	12° S	10°48'44'',3 S	76°51' W
36	0°	0°	58°51' W
37	12° S	10°48'44'',3 S	40°51' W
38	0°	0°	22°51' W
39	12° S	10°48'44'',3 S	4°51' W
40	0°	0°	13°09' O
41	27° S	26°33'02'',2 S	31°09' O
42	30° S	31°43'02'',9 S	67°09' O
43	27° S	26°33'02'',2 S	103°09' O
44	30° S	31°43'02'',9 S	139°09' O
45	27° S	26°33'02'',2 S	175°09' O

46	30° S	31°43'02'',9 S	148°51' W
47	27° S	26°33'02'',2 S	112°51' W
48	30° S	31°43'02'',9 S	76°51' W
49	27° S	26°33'02'',2 S	40°51' W
50	30° S	31°43'02'',9 S	4°51' W
51	58°30' S	58°16'57'',1 S	31°09' O
52	50° S	52°37'21'',5 S	67°09' O
53	58°30' S	58°16'57'',1 S	103°09' O
54	50° S	52°37'21'',5 S	139°09' O
55	58°30' S	58°16'57'',1 S	175°09' O
56	50° S	52°37'21'',5 S	148°51' W
57	58°30' S	58°16'57'',1 S	112°51' W
58	50° S	52°37'21'',5 S	76°51' W
59	58°30' S	58°16'57'',1 S	40°51' W
60	50° S	52°37'21'',5 S	4°51' W
61	90° N - geographic north pole		
62	90° S - geographic south pole		

Explanation of the table:

Starting point of the primary-empirical calculation (performed in 1971) of the IDSE and the subsystems was the complex of the pyramids in Giza (node 1), more precisely the Cheops pyramid, whose geographic coordinates are 30° N 31° 9' E. This allows to calculate the coordinates of the remaining IDSE nodes. This allows to calculate the coordinates of the rest of the IDSE nodes. Most of the collected data indicate that the position of the IDSE and subsystems (at least in the present time) corresponds to the calculation from this pyramid. The geodetic calculation of the IDSE was done later (since 1973, the final version is from 1981).

When comparing the geodetic calculation with the primary empirical one, the following differences were found:

1. The tip of the icosahedron was ~30'closer to the equator.
2. The centers of the polar faces of the icosahedron (peaks of the dodecahedron) were ~2.5° closer to the poles.
3. The width of the nodes at the centers of the bases of the circumpolar triangles was ~1.5° more.
4. The latitude of the centers of the equatorial edges of the icosahedron was ~1° lower.

The authors of the IDSE explain this by the fact that the planet is not a dead, frozen body, but on the contrary a mobile, living organism. As the Earth rotates on its axis and around the Sun, it is affected by rotational forces, tidal forces (Moon, Sun, planets), etc., which cause deviations of the position of the IDSE energy grid from the calculated geodesics.

Table 2. The ratio of the length of the edges, the diameter of the nodes and the width of the edges of the IDSE grid and its subsystems.

ISDE grid	Edge length	Diameter node	Edge width
Main triangle	6998,4 km	360 km	72 km
Subsystem 1	2332,8 km	120 km	24 km
Subsystem 2	1166,4 km	60 km	12 km
Subsystem 3	583,2 km	30 km	6 km
Subsystem 4	194,4 km	10 km	2 km
Subsystem 5	"konka" 64.8 km	3,333 km	667 m
Subsystem 6	32,4 km	1,667 km	333 m
Subsystem 7	16,2 km	833 m	167 m
Subsystem 8	5,4 km	278 m	55,5 m
Subsystem 9	1,8 km	92,6 m	18,52 m

Subsystem 10	900 m	46,3 m	9,26 m
Subsystem 11	450 m	23,15 m	4,63 m
Subsystem 12	150 m	7,7 m	1,54 m
Subsystem 13	50 m	2,57 m	51.4 cm
Subsystem 14	25 m	1,3 m	25,7 cm
Subsystem 15	12,5 m	64.3 cm	12,85 cm
etc.			

Appendix 3

Megacount

9

It is necessary to note the universal distribution of the symbol of the number 9. Is this a mirror image of the division of triangles into nine parts? According to Reclus, "astronomers of the 6th century of the Christian era take a lotus figure for comparison to divide India into nine parts corresponding to the center of the flower and its eight petals." Interestingly, the plan of the ancient Slavic sanctuaries of Perun (near Novgorod and in Kiev) repeats the flower "Perunitsa" with eight petals. Perhaps because of the symbolism of "9", this flower was sacred among the Slavs, as the lotus was among the ancient Egyptians, Hindus and Khmer. The famous St. Basil's Cathedral in Moscow has eight "columns" around the 9th center.

The widespread use of the 9 symbols is evident from the following examples of ancient mythology and history: the king of Crete Minos, according to the testimony of Homer, spoke with the Great Zeus every 9 years, every 9 years the inhabitants of the lands under Minos made a sacrifice to the Minotaur ... Atlantis was divided into 9 parts.

The Behistun Wall in Iran shows the King of Kings Darius and before him 9 associated kings, apostates. In the ancient Egyptian priestly city of Heliopolis, the "great 9 gods" were honored. At the festival of agriculture, the ancient Chinese emperor made 9 furrows with a plow. In ancient Russia, 9 sheaves of rye were prepared for weddings.

Does this symbolism of the number 9 have a deeper meaning? Is this number a unit module in the characteristics of various phenomena and processes?

In ancient times, people knew well about the periods beyond the length of their civilizations. According to Hindu mythology, "the life of the longest-living god Brahma lasts 311 040 000 000 human years," which was considered the lifetime of the universe. The ancients knew the zodiacal cycle of 25920 years, which modern scientists define as about 26000 years (the time of precession of the Earth's axis).

In the ancient calendars of the Egyptians, Hindus and Mayans, there were 360 days in a year, a year consisted of 12 months with 30 days each. The modern calculation of seconds, minutes, hours and days comes from ancient Babylon. If we calculate the number of seconds in a month and in a year according to the calendar of the ancients, we get 2 592 000 and 31 104 000, respectively, numbers that are multiples of 9. They are familiar numbers that indicate this micro and macro time, members of a system that was known to the ancients, they differ from the above only in the number of zeros.

In ancient texts we often find the numbers 12960, 432, 216. All of them refer to one or the other period or parts of it. Thus, the number 2160 is 1/12 of the zodiacal cycle of 25920 years. The astronomical period of 180 years, in which all planets of the solar system are in a straight line
"align", is 1/12 of the period of 2160 years. The hierarchy of the large and small numbers also includes the large and small Saros cycles known in ancient times.

The small Saros cycle is a period of about 18 years, after which solar and lunar eclipses recur in the same order. Small series of Saros cycles combine to form large Saros cycles, measured in centuries.

Numbers as multiples of 9 do not only belong to the time characteristics. In one minute the earth flies in its movement around the sun a distance of 1800 km and the light of 18 000 km, both numbers are a multiple of 9. In one day the earth passes 2592 km and the light of 25 920 000 000 km, the same numbers, the same module 9 is immanent to the numbers.

Thus, space and time were connected by the module "9". Perhaps it is an essential feature of a single space-time system. In the book "The Secrets of Ancient History" A. Gorbowski writes: "The starting point for the hexadecimal number system was SOSS = 60. If the entire orbit of the Earth's sphere of 25920 years is divided into SOSS, we get the number 432. In the Earth's triangular system, each interior angle of the spherical triangle is 72° (the cross sum of the digits 7 + 2 = 9). The sum of the interior angles of the triangle is 216°; the sum of the rhombic angles is 432°; between the two nearest nodes in the system 36°; in the circumpolar triangles between the summits of the poles and the summits at 27° north and south latitude 63°; at equatorial triangles between their north and south summits 54° (27°+ 27°). Everywhere the cross sum of the digits is 9, which means the multiplicity of this number.

The triangular-pentagonal system of the Earth is apparently a fragment of a single space-time system of general cosmic character, and the ancients probably had an idea of some of its elements.

Enclosure 4

Some articles by Elisabeth "Bethe" Hagens

Elisabeth Hagens is an American interpreter of IDSE theory, a doctoral student in anthropology, an active member of the University of Cincinnati academic community, a developer of renewable energy projects in the northwestern United States, and an editor of Acorn News. She kindly told us about the story of her work and her acquaintance with Valery Alekseevich Makarov. She had been interested in the geometric, design principles of ancient mythology since 1980, and quite quickly became familiar with the quasi-crystalline structure of Plato's Earth and the Goncharov-Makarov-Morozov theory. More details are in the following letter:

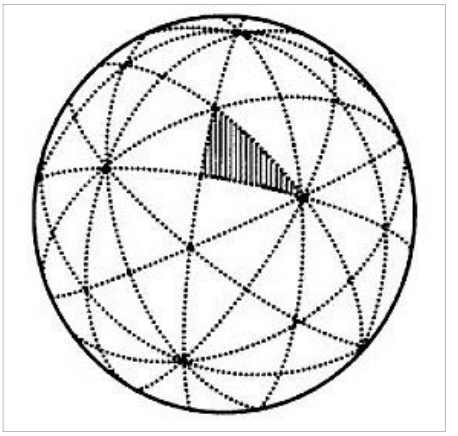
> In 1975, Christopher Bird published a short article in New Age dealing with IDSE. The IDSE scheme from that article was later included in Moir Timms' book, Prophecies and Predictions. In 1982, right after we were married, my husband William Becker showed me this scheme. It looked like someone had painted the Buckminster-Fuller matrix on the surface of the earth, with only a few elements missing! I looked at it and thought, 'This is it, the work of a lifetime.' After numbering the elements, I knew this grid (as we called it) could provide a stable framework for mapping. I quickly found the original story in New Age magazine, met Christopher Bird in Washington, and began an ongoing work with other amateur researchers, over more than 10 years. We created a slightly modified version of the IDSE, the HCS, i.e., a unified vector geometry. I represented the system at many scientific conferences, including the American Association for the Advancement of Science and the American Anthropological Association. In 1991, to my surprise, I discovered that the HCS can be transferred to the celestial sphere and I also "transferred" my further work to the sky. Valery Makarov's son Denis got my phone number from Christopher Bird and called me in 1994. Needless to say, I was surprised that Valery heard about my work! In the summer of 1994

I was able to come to Moscow for a week to meet with him, and I felt that we were already familiar. I learned a lot about the work of the Goncharov-Makarov-Morozov group of authors and found a correspondence in their research and ours. One of the statements Valery made then is currently being developed further by American astrophysicists. He considered the dodecahedron as the main element of the IDSE, as a "candidate for a model of the universe." Valery also said that together with Goncharov he had once tried to project a network onto the celestial sphere, but this idea had not been crowned with success. Now he felt that I had found the right approach to this problem. I am very grateful that I met Valery! He worked obsessively, was curious, devoted himself excessively to the ideas he was working on, and convinced me to defend his views.

The following are the texts of two articles by Elisabeth Hagens that most clearly reflect the essence of her research.

The basket of heaven

For about twenty years I have been studying anthropology, art and geometry to understand how people perceive the world around me. Mythology and world religions are filled with numerous evidences of ancient eclectic geometric science art, in which the understanding of body, mind and soul, earth, animals and sky was unified by certain principles. In this article I present my assumption about the *celestial basket* as the central organizing principle of this ancient system. I have given this name to a geometric figure known as the hexa- icosahedron, which Plato presents in detail in his Timaeus dialogue. Ancient astronomers around the world used this model as the framework on which the ecliptic was based for mapping the celestial sphere.

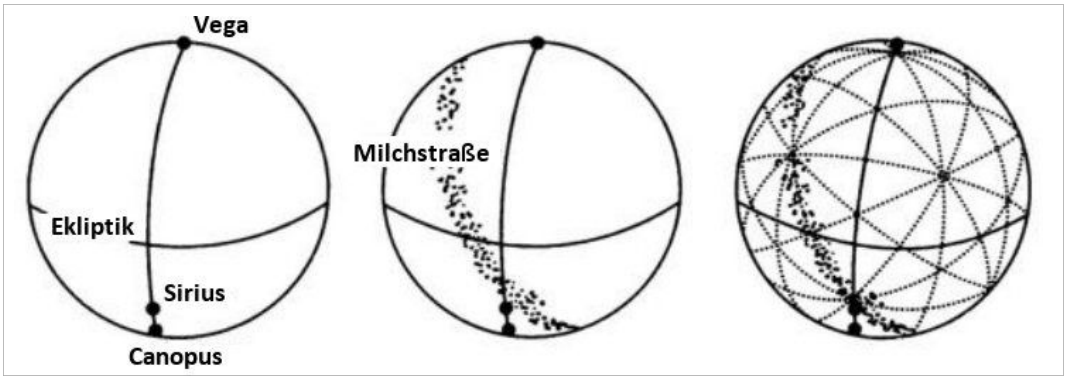


In the Timaeus Plato describes the primordial woman, "the nourisher of becoming". It is an invisible unity, a structural geome- try, which organizes the matter "above and below". Its ideal body - a sphere of 120 equal triangles - is the basis of the five dynamic elements of creation: fire, earth, air, water and. Ether. Plato connects each of these elements with a regular geometrical body and with a color: Fire - Tetrahedron/Red, Earth - Cube/Yellow, Air - Octahedron/White, Water - Icosahedron/Black, Ether - Dodecahedron/Green. Moreover, Plato shows how each of these solids can be inscribed in a sphere with 120 triangles (celestial crust) so that their vertices coincide with the vertices of the triangles. Although the basket never manifests, the structure of the five regular bodies can be demonstrated at every conceivable scale - from viruses, crystals, plankton and pollen to the earth. Regardless of size and position, Plato believes, the etheric 120-triangle sphere is a con- stant, the general plan of the structure of nature.

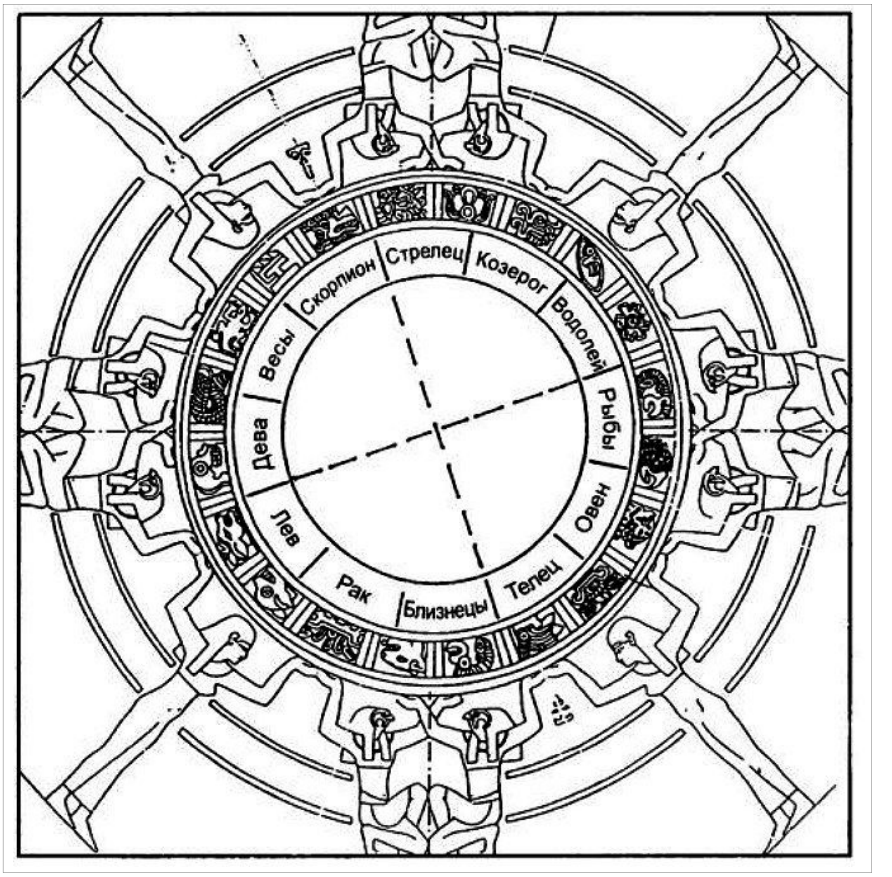
The same celestial basket is mentioned in the mythology of many cultures of America, but not as a triangle, but as a huge circle (hoop), e.g. in the my- thos of the Sioux Indians about the creation of the universe: "In the beginning there were innumerable etheric hoops. Everything was circles within circles. The original Mother Earth consisted of fifteen hoops to which the Creator gave various powers and manifestations in the material world, including the sun, moon and stars. The sixteenth hoop became the Earth's orbit around the Sun - the ecliptic." The color symbolism of these cultures is the same as Platonic, but the relationship to the five forms is incomprehensible and is often placed in the context of secret initiation rituals.

Thus, the celestial basket can be considered a "constant" in ancient knowledge of the Americas and the Mediterranean. The second constant was the *ecliptic*, the fixed and unchanging plane of the Earth's orbit in relation to the Sun, on which the zodiac is based in all cultures.

The ancient astronomers combined these two constants (the celestial basket and the ecliptic) for their observing systems. It is not known how the celestial basket was opened. However, we do know that the physical conditions have been quite stable for the last 25,000 years, allowing people to see traces of this geometry on the celestial sphere. A huge circle perpendicular to the ecliptic (and thus running through its north and south poles) connects the three brightest stars in the sky: Sirius, Canopus and Vega, which are important for mythology. I have described this circle as an *orientation frame.* It is crossed by a second huge circle, the Milky Way. The two circles fix symmetrically the geometry of the celestial basket on the ecliptic. The basket shows the ancient 20-headed division of the ecliptic and quadrant system, after which the zodiacal calendars of Central America, Egypt and Greece were built, i.e. the stone circle of the Aztec solar calendar, the calendar on the vault of the Egyptian temple in Dendera and the classical Greek zodiac, consisting of 12 periods of 2160 years each.

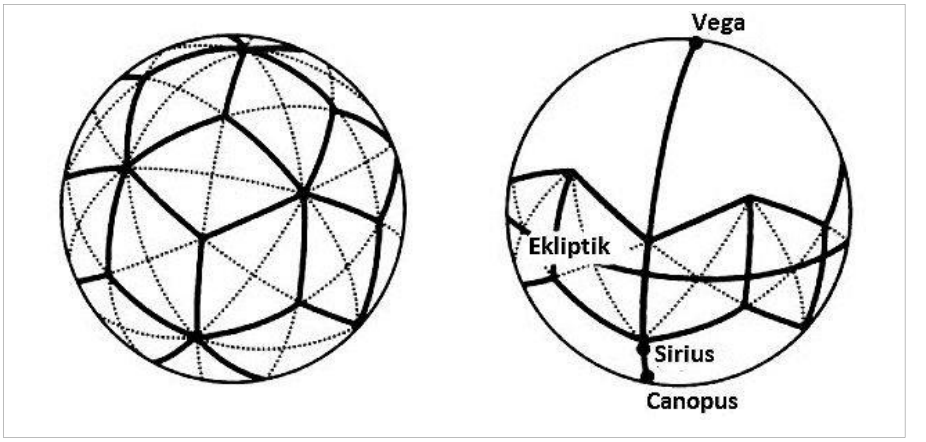


These three zodiacs do not know the master plan of the celestial basket and show only a superficial connection with the division into quadrants. Each quadrant in the Aztec solar calendar is divided into five identical segments of 18° each (therefore there are 20 in total). In the Dendera zodiac, the female and male figures connected by locks divide the steep ecliptic into eight segments of 45° each.



Each quadrant of the Greek zodiac is divided into three sections of 30° (12 sections are obtained in total). Besides astronomy, linguistics, geometry and mythology show the close connection of these three zodiacs.

The rhombus was extremely important in ancient cosmology. The geometry of the celestial basket contains a figure called the rhombic tricontahedron, consisting of thirty equal rhombuses (rhombs). This shape was known to the already ancient Etruscans, but for some reason was lost to knowledge until it was rediscovered by Kepler. The word "*rhomb*" or Greek *rhombos* (buzzwood, magic wheel, rhombus) has the Indo-European root wer- = "to whirl, to bend". Wer- is also associated with the "shoulder".

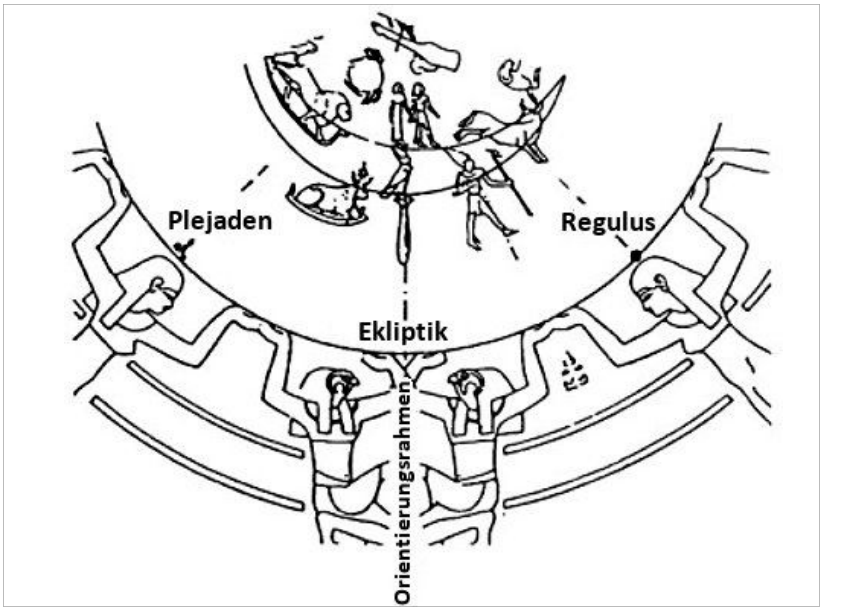


In mythological and religious texts, the zodiac is a magical circle that turns by itself and cannot be stopped.

In the celestial basket ten rhombuses of the triacontahedron symmetrically describe the ecliptic. The hands of the Dendera zodiac figures hold the scene of the zodiac precession.

In our time, the swirling wood (*rhombos*) is known only in anthropologicalалмаза circles, but in ancient times it was the most important musical instrument of almost all cultures of the world. In initiation rituals it was used both as a musical instrument and as a knife for cutting. A swizzle stick is a 15 to 70 cm long wooden instrument in the shape of a fish, which is suspended by its head from a long string, hums when it is spun, and brings about altered states of consciousness. In mythology and rituals, the buzzing sound is always associated with thunder (the voice of the deity) and the constellation Orion.

The complex symbolism of the rhombus as a tool, zodiac and diamond is another universal "constant" of ancient spiritual science, which included astronomy. At the beginning of the constellation Orion, the outline of a fish is clearly visible on the zodiac Dendera. This drawing, combined with the joined hands of two figures, divides the arc of the ecliptic between the Pleiades and Regulus into two segments of 45° each. The orientation frame of the celestial basket divides the ecliptic at the same place. The hands of all Dendera figures mark twenty identical segments. The
"Tongue" in the form of a fish-like knife crawling out of the mouth of the central fi- gure of the Aztec stone calendar points to a point between two of the twenty zodiacal lines - the dog and the monkey.



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This divisor probably corresponds to the orientation frame, since the monkey marks the beginning of the constellation we call ori- on.

Although it has nothing to do in the objectives of this article, we nevertheless consider it necessary to mention that Polaris began to play the role of the "North Star" only around 1000 AD, when the point of the summer solstice coincided with the orientation frame (the dividing line between the monkey and the dog in the Aztec calendar) coincided. In the cultures of the ancient world, the North Star as North (Dog-Monkey, the figure of Thoth) imposes "to attract attention". The guiding star is well known in mythology and signals, I suspect, the approaching
Connection of the summer solstice with the intersection of the ecliptic and the Milky Way in the constellation Orion. This astronomical construction marks the end of the ape and is a kind of starting point in a series of ancient calendars.

The astronomical relationships between the Greek and Egyptian zodiacs are already well established. Furthermore, the symbolism of Rhombus gives astronomical significance to the myth of Dionysus. There are many par- allels between the endlessly dying and resurrecting mythical heroes, Dionysus and the Egyptian Osiris, the latter being associated with Orion and Taurus. Dionysus, as a newborn, was placed under the care of Hyades (a group of stars in the constellation of Taurus, north of Ori- on) and given a "buzzwood" that distracted him until he was torn to pieces by the Titans.

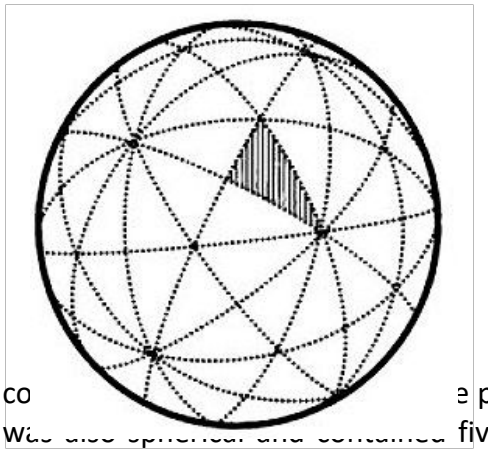
Thus, a symbolic set of four "constants" (celestial basket, ecliptic, Milky Way and rhombos) shows that the complex geometry of the zodiac of the Az- tecs, Egyptians and Greeks are real in time and space. The Greek epo- ces Taurus, Leo, Scorpio and Aquarius, the signs of the zodiac considered "fixed" in prophetic and esoteric texts, mark the positions of the quadrants in the other two zodiacs. It remains to consider - and this is what I am busy with at the moment - whether the prophetic theology of the Greek zodiac corresponds with what we can learn from the ancient Egyptians and the inhabitants of Central America.

Paradise and precession: a geometric legend

> This secret stone is safely hidden, good for nothing, it lies in the mud. It is everywhere, it is a stone and not a stone, it is despised and precious, hidden,
>
> but known to all.

In the legends there are so many images of the mysterious stone of the alchemists, the "philosopher's stone", that one does not know where to begin. Lying in itself, in our world, in life itself, it is an ordinary entity, a creative vessel in which the elements of creation are mixed and transfor- mated.

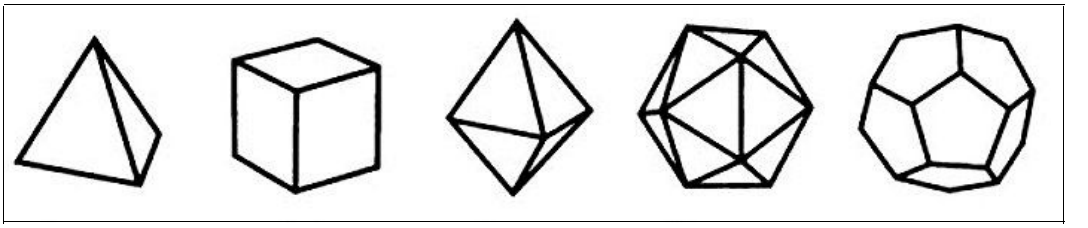
This "stone and non-stone" at the same time is elusive; it is as deep as breath, as pervasive as love, and as wise as light. This is the ideal form that the mind can understand, but it is impossible to see. Cosmic processes take place in this sacred, eternal and unchanging vessel; it is the rock of the ages.



Plato used the idea of the philosopher's stone to create his own doctrine about the origins of life. He called it the ideal body of the cosmos, a perfect sphere consisting of 120 spherical triangles and containing five dynamic elements of creation: Fire, Earth, Air, Water and Ether (life energy).

The great spiritual leaders of the Indians of North America had very similar co e point of view of the Sioux tribe, the universe was also spherical and contained five elements of creation. In the beginning it consisted of an infinite number of tires, i.e. like a skeleton not yet formed. Everything was circles within circles. The original earth was created from 16 sacred tires, each of which was given certain ma- nifestations and powers in the material world by the Creator. Fifteen of them intersected and formed a sphere of 120 triangles, similar to the Plato- nian one. The sixteenth became the Earth's orbit around the Sun - the ecliptic.

Most, if not all, cosmologies of the world converge on the same basic functions of the five dynamic elements in the transforma- tion of material space, the world. Fire is the initiating energy, earth is the principle of materialization, air is the cosmic breathing cycle, water is purification, ether is enhancement. In Platonic space, each element was symbolized by one of five ideally symmetrical geometric bodies (the so-called Platonic bodies). These solids were known and modeled by many ancient cultures, although it is believed that geometry (the science of measuring the earth) was first created by the Greeks.



Tetrahedron (Fire)	Cube (Earth)	Octahedron (air)	Icosahedron (water)	Dodecahedron (Ether)

The correspondence of the five dynamic elements to the bodies of Plato

All these regular geometric solids are "contained" in the Platonic philosopher's stone. Each of them can be described by 15 hoops in a sphere with 120 triangles in such a way that its vertices coincide only with the vertices of the triangles. This is how the stone works; it is hidden, but present everywhere. He, the universal plan of the structure of the nature.

The right forms are recognizable at every conceivable scale, from galactic clusters to crystals to pollen and plankton. The micro-scopic protein shell of many ordinary viruses is actually a structural combination of two bodies, the icosahedron (water) and the dodecahedron (life energy). This can also be represented as the crystalline materialization of the ideal spherical philosopher's stone. Viruses are considered as the initial elements of the evolutionary process (vital energy), which can appear only in the liquid of the host cell (water). The words *virus* and *environ- ment* are therefore related.

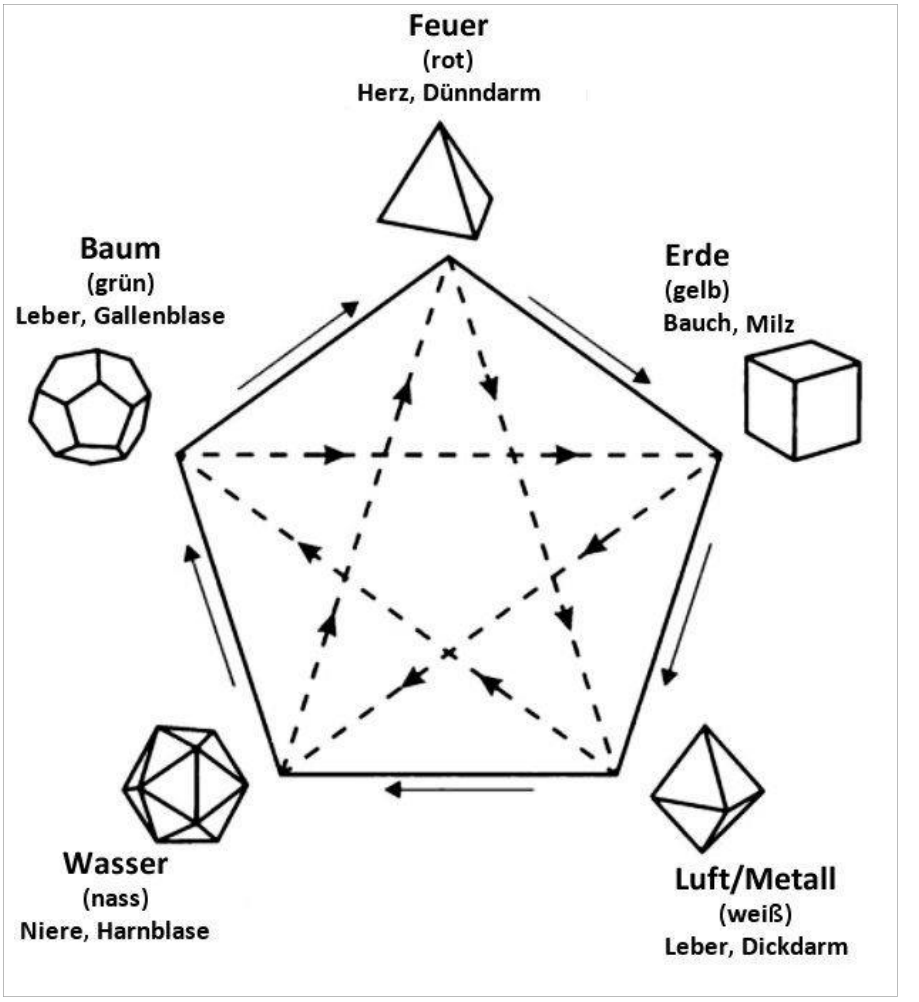
Plato ordered the elements according to the complexity of geometry, from the simplest (tetrahedron) to the most complex construction figure (dodecahedron). Today, scientists use a similar geometric hierarchy to explain the principles of growth and fusion of molecules and cells. For example, the simplest molecule is considered to consist of four atoms (energy nodes) equidistant from each other along the vertices of the tetrahedron (the first Platonic solid, fire).

The same model is used to describe the growth of a fertilized egg cell. The first division into two interconnected halves of the sphere is immediately followed by the second, which forms a blastomere, i.e. a te- trahedral structure of four cells.

The periodic table of elements is also organized in accordance with these five geometric bodies. Elements with the same basic molecular shape (e.g. gold, copper and silver - cubic) have many similar physical properties. The chemical combination of molecules with different basic shapes is able to bin different nodes of an ideal container with 120 triangles, a spiritual spherical philosopher's stone, because of their unique structural con- vertibility and ability.

On the macroscopic level, the Earth itself is modeled as a galactic molecule, a composite body that gravity connected or "soldered" a series of "planet-like bodies" that once revolved around the Sun. Scientists believe that as a result of strong heating (plasma or fire) lighter elements (solid particles or the earth) rose to the top and thus the earth's crust was formed. After some time gases (air) and liquids (water) burst through cracks in the crust. All this prepared a biological transformation and evolution (life). The sequence of transformation of elements is identical with the Platonic division.

The space of the ancient Chinese, consisting of fire, earth, metal/air, water and tree, was represented in the form of a pentagonal scheme. Each dynami- cal element of this system had an equivalent of color, an organ function of the human body, and a position (not form) in the universal scheme of creation and destruction. The order of creation (symbolized by the Pentagon) leads to the complexity of materiality. The order of destruction (symbolized by the pentagram) leads to more subtle states of matter.



Space scheme of the ancient Chinese with platonic bodies

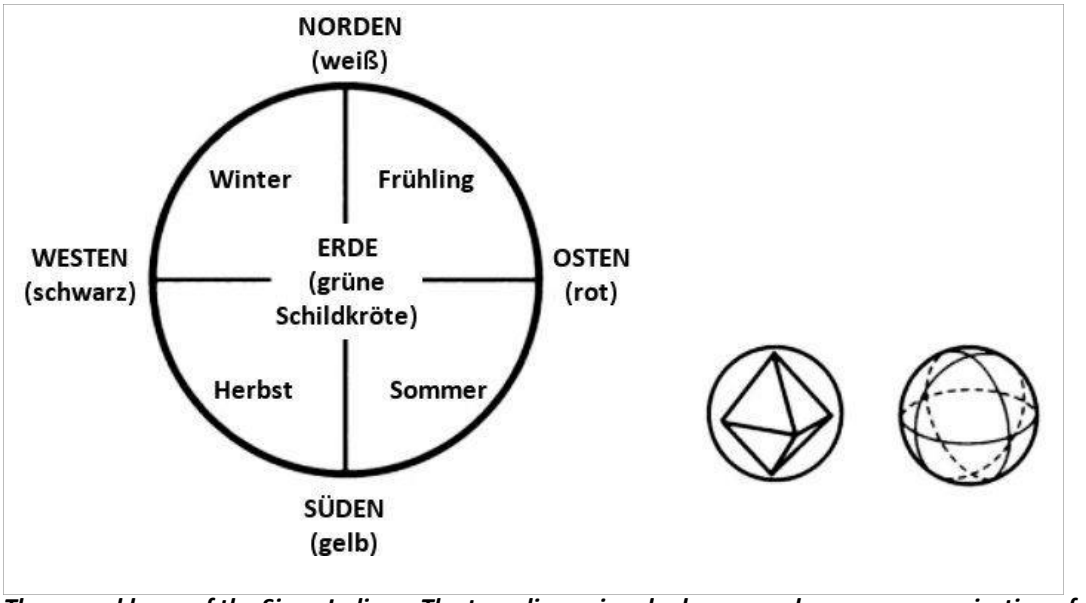
There is no direct evidence that the ancient Chinese philosophers used geometric shapes to represent the five elements of the scheme, since the oldest Chinese wisdom has been lost through the burning of manuscripts, but it seems very likely that they were used. In any case, Plato also gave color to his bodies, and Greek and Chinese color symbolism agree. The order of creation in the Chinese scheme reflects the order of geometric complexity.

There is also a tenuous connection between the plane bodies and the Buddhist stupas, traditional tombstones that still exist in India, China

and Japan are manufactured. These stones are stylized miniature copies of giant bath stupas, as such they contained the physical remains of Buddha and symbolized the eternal return of matter to the real world of spirit. The base of the stupa is the cube, which corresponds to the earth, the solid foundation of the whole. On top of it there is a sphere (water), a triangular shape (representing fire, a symbol of the transformation of the elements), a half-moon (symbolizing air, inverted sky and wind) and finally a spherical top (ether, distributed in perfect space). The elements of the stupa are always placed in the order corresponding to the order of destruction of the Chinese cosmos.

In America, therapeutic wheels, large, round, bound stones that represented the transformative, healing powers of the elements and their geographic alignment in the scheme of the creation of the universe, often served as spatial diagrams. Like Stonehenge and other ancient astronomical observatories, these much smaller stone constructions acted like an hourly calendar. Each of these sacred rings was specifically designed to honor and sustain regenerative energies unique in time, place, and transformative meaning in a particular position in space. They were built "in harmony" with a sacred, secret, ideal order. Moreover, these stones resembled "road signs" that were "read" by the rising and setting sun, moon, planets on their paths through hoops around the earth.

The position of time and space in the context of an infinite circular cycle seems to be much more important to Native American cultures than anything to do with the order of the elements. The sacred hoop linked element, season, direction, color, and life form. It served as a concept for ceremonial spaces and as a compositional basis for sacred art. It was the ideal of life, fully and properly lived.



The sacred hoop of the Sioux Indians. The two-dimensional scheme can be seen as a projection of a
spherical octahedron can be considered.

The responsibility and privilege of a man throughout his life was to grasp and recognize each of these elements, close the ring, and thus complete his sacred cycle. A Sioux priest and seer, Black Elk, used the same colors in the symbolism of the elements as the Chinese and Greeks.

According to legend, the Philosopher's Stone is "hidden in the dung". This aspect of its mystery is most clearly reflected in ancient Afro-Egyptian cosmology. In it, the stone was depicted as a ball of dung that a beetle scarab (*scarabaeus sacer*) rolls through the sky every day. In particular, the scarab symbolized the universal ability of self-regeneration that guides the sun on its path. The earth also received and implemented this ability.

It is difficult to say how far back the symbolism of the scarab goes into the past. Several Paleolithic carvings in Europe depicting the figure of the goddess of rebirth accurately reflect the beetles crawling out of the pupae. The correspondence between ancient cosmologies and modern biology is so remarkable that these sciences, unrelated today, should undoubtedly be combined in the future.

The scarab was a symbol of culture and especially appreciated the transformation processes in life support and waste products. The poses and proportions of animals, plants and people have been transformed into each other. The literal image of the body was considered a temple - compact forms that were "cut out" over time. Egyptian art, based on the similarity of poses and proportions, combined human, animal, mi- neral, plant and celestial forms in the same way that modern chemists create molecular bonds. They were transformed into each other according to the laws of geometry, elbow, ankle and knee joints, the inclination of the head as it stood on the spine.

The remains of the dead were also honored. Human waste (especially feces, saliva and mucus) served as food and creative material for the gods. From this tradition derives the myth of the Greek earth goddess Gaia, whose name now denotes as a scientific hypothesis the unity of the earth as a living system, but which feeds on the sun. In many cultures the sound combination meant "Ga-ya" or
"Ge" the earth and implied the divine ability to transform. In Egypt, this energy was Geb, the divine nature of the earth. In the Semitic languages (the language family of the Arabs and Jews), it was Galel or Gela, meaning "rol- ling dung ball." The terrible wheel that rolled across the sky in the book of Ezekiel was made of wheels that "did not turn." In the original Hebrew text the wheels were "golden rims", the wheel itself was a rolling dung ball - a living solar system.

It is clear that it is not easy to imagine Gaia or our solar system in the form of a dung ball, but this is the essence of the most ancient wisdom. The Earth and the Sun are uniquely compatible spherical bodies that contain and shape the life of the cosmos. And there is more than poetic beauty in such a cosmology of the earth.

It metaphorically describes the biogeochemical processes generated by earth, soil, air, water, and life that support ecological balance on the planet (oxidation, reduction, gasification, liquefaction, evaporation, distillation, bacterial growth, viral competition, etc.).

However, at least since the days of the ancient Egyptians, the Western concept of space has become increasingly "hygienic". Plato was educated in the Egyptian tradi- tion, which is why his ideal cosmic body was much more austere: "The rounded spherical form, once consumed, needed no organs for eating and excreting waste ... it was built to feed itself with its own waste." He depicted the earth as a soccer - a spherical dodecahedron. Plato once wrote, "The earth, when viewed from above, looks like a ball sewn from twelve pieces of leather."

In the last twenty years, after we saw the Earth from space, Plato's model has again become a research tool for small teams of researchers around the world. The 120-triangular sphere with 15 rings is now viewed as a map, a modern spatial structure that represents in grups the order of clouds, ocean currents, mountain ranges, river systems, coasts, and other terrestrial energy formations. These exercises in geometric geography led to another promising discovery. Such a spatial structure "connected" the most important places of antiquity - the Egyptian pyramids, Easter Island, Mohenjo-Daro, Machu Picchu, the southwestern region of the United States called "Four Corners," the mythical Shambhala, the upper Amazon, Angkor, Chitzen Itza, Persepolis, Greater Zimbabwe, Benin, Timbuktu and many others. They are located in the nodes of the map or very close to it; it is very likely that the ancient world civilization used the map to plan the earth and maybe even as a coordinate system like our longitude and latitude system.

From such an understanding of the map as the philosopher's stone, it follows that the earth has a natural division system, like a fertilized egg, a brain, or countless other objects of nature.

This mystical division into hemispheres can be seen as an orientation ring. As the example of the Afro-Eurasian hemisphere shows, this ring mar- kens a conditional line between East and West drawn by the historian K. Northcot Parkinson. More than 25 years ago, Charles Piazzi Smith (the Scottish Royal Astronomer) noted that this longitude "occupies" more land than any other longitude on Earth.

Probably more significant are the angles of stones falling on this ring. Angle 1 is a global center that clearly shows how the crystalline structure "crushes" the consciousness of people. This is an energetic symbol of the power of the pharaohs, the rise and fall of civilizations resulting from antiquity, the animosity between Arabs and Jews, the triumph of technology, the tragedy of human stupidity and greed, the wealth of the Nile, the mysteries of life and death. It covers the entire spectrum of human moods and capacities, both logical and emotional. In ancient times, the angle Bechdet was a geodesic mark in the spherical cartography of the world, described in detail by the distinguished historian of measurement systems Livio Catullo Stechini near Jerusalem, Alexandria (where the great library is located) and the complex of the Egyptian pyra- mids of Giza.

Kiev (Angle 2), the most popular city in the former Soviet Union, is an al- ter place of pilgrimage, but it was "scarred" by the terrible nuclear disaster of Cher- nobyl. Angle 21 near Khartoum is located in the center of the ancient Cushitic kingdom. In our time, it has become the center of a ver- heous locust invasion that, according to the United Na- tions, knows no comparison. To the south, near the 41st corner, lies Great Zimbabwe, the most remarkable megalithic structure in all of Africa. This win- kel has apparently always symbolized the divergence of biological types and the hope for peace. In the early 20th century Raymond Dart made his outstanding discovery here, finding the remains of a homini- den. The struggle against apartheid is perhaps a legacy of this. Angle 51 is the natural refuge of whales.

Angles 61 and 62 are the geographic poles of the Earth and symbolize its orientation in space relative to the Sun. The problem of the "ozone hole" was first raised in relation to the section of the atmosphere above the South Pole. Finally, in angle 7 falls the location of the disaster of the oil tanker Valdes of the company Exxon.

Modern studies based on the map have become surprisingly interdisciplinary because the object of research, the map itself, is essentially a sacred symbol, the Philosopher's Stone. Its importance and hidden meaning are deeply rooted in the mythology, religion and science of each culture. In fact, it is not interesting what the map represents or where its corners fall, but where it will lead. It is possible that on its basis an impartial conversation about the future can be had in which different historical views and beliefs about the structure of the environment complement rather than contradict each other. We will probably never know if and how the map was used in the past (as with the Piri Reis Atlantic map and the 14th century Canestris Mediterranean map, ancient cartography appears to have been used). However, we can assume that people initially had a basic, highly developed geometric mind and dispersed it in different directions that are, however, metaphorically similar.

Undoubtedly, the map belongs to sacred geometry. The proportions of the various figures that make it up are anchored in the architecture of important buildings, despite the obvious difference between Gothic cadres, the Temple of Solomon, Stonehenge, Maori Ouare Vanang ("holy Sh- kopami") and Buddhist temples. The various rules and dimensional systems used by carpenters and masons to construct these buildings also reflect sacred geometry. In some corners of the world, even the distances between settlements corresponded to the same geometric proportions.

In countries as far apart as China, Turkey, Scotland and Australia, distances and lengths corresponded to precise sounds. That is, the map could be voiced aloud! The Pythagoreans called it the music of the spheres. Nowadays the sides of the map triangles are 1440, 2160 and 2592 miles. These distances correspond to the contracted seventh chord, i.e. C, G, Bb, to the fundamental notes of the blues music.

Geometry and the philosopher's stone are clearly recognizable in the Christian prayer "Our Father". The Greek word *epi*, used twice as a prefix in the phrase "Thy will be done on earth as it is in heaven," denotes an all-encompassing energy that spans time, space, order, direction, distribution and power. It is very close to the map as an ideal structure. Johann Kepler also seems to have represented an ancient cosmology that prevented the Earth from penetrating the interior of the celestial Philosopher's Stone. He spent a significant part of his life simulating the position of celestial crystals and pondering their influence on the Earth. A map with an orientation ring can be drawn on the non-heavenly sphere, so the discoveries in modern astronomy and cartography are in perfect harmony with ancient beliefs about the stars and the divine figures they represent. The ecliptic is the equator of such a celestial globe. The orientation ring is perpendicular to it and passes through the north and south poles of the ecliptic, Sirius, Canopus and Vega. So the geometry of the map is fixed in space. It is remarkable that the Milky Way falls exactly on one of the 15 rings.

The celestial orientation ring was even used in classical astronomical texts, for example in Smith's Illustrated Astronomy of 1871. The concept of a spherical geometric container was lost to Western science, but was still alive in the 13th century when the stone calendar of the Aztecs was created. Its inner circle of twenty segments is an exact geometric representation of the ecliptic.

Each of these segments symbolizes the time span of 1300 years in the precession cycle of the earth and is marked by the observed position of the sun relative to the sunrise on the day of the summer solstice. This day was undoubtedly chosen because at that time the north pole was primarily facing the sun (on the day of the winter solstice it is farthest from the sun). The hanging out of the tongue on the stone indicates the celestial orientation ring that runs between the Great Dog and Orion (Dog and Monkey). The meanings associated with these constellations are universal. Orion is probably Hanuman, Prometheus, the great spirit of the Sirens, Osiris and the doomed hunter. A fish-eye or a dot on the tongue hits the star Betelgeuse. It notes the predicted times of unrest and upheaval. If we continue the line from the center of the sun god through the eye to the ring, this marks the current po- sition of the summer solstice and sunrise. This will be our time, predicted, expected, hoped for and feared.

The survival of mankind is questionable. On this basis I come to the most difficult questions. Were there evolutionary kinship phases between man and planet? Was there much harmony before the era of industrial society? And above all, why did we reject paradise?

Our ability to ask such questions is both pleasant and terrible at the same time. Over time, every nation in the world has found its own way to know nature. However, I am not sure that these paths can be arranged in a hierarchical order. Harmony exists in the soul of the one who listens. It can be represented as a geometric abstraction, as the philosopher's stone, but the comparison is much more complicated. People were always looking for a more perfect harmony and thus for a "lost paradise". Humans are curious beings. We are "in har- mony" in phases of accentuated evolution where we can distinguish different progress rather than hierarchies. Why should the paradise then be something different?

When I was preparing my notes, I was surprised to find that the linguistic root of the word "paradise" (in Russian "ragaove") means "rounded earth bank". I began to wonder if Paradise is not the circle of the zodiacal "shaft" of the ecliptic observed from Earth, where almost all al- ten calendars marked the path of the suppression of the Sun during the summer solstice. Is it not a cycle or spiral of the evolution of life on Earth? I think so. Concepts like the zodiacal epochs, the wheels of karma, and even the coming New Jerusalem echo ideas about paradise that industrial society rejected as superstitious and dangerous. Normally, we do not think of ourselves as "precession beings" but as evolving souls living in the "memory" of a geometric universe. Such an approach would be too fatalistic for an industrial culture.

The key to understanding our position in time, in paradise may be the modern work of biophysics. In recent years, scientists have discovered several "new" types of microscopic crystals (so-called "quasi-crystals") and molecular carbon lattices, which can be fundamentally new energy stores. Both substances are arranged according to the crystal geometry of Plato's Philosopher's Stone.

Models of a spherical container surrounding the solar system are becoming more and more recognized, and I can assume that the day is near when it will be possible to identify various types of galactic effects on this celestial sphere. These effects are similar to the influence of the Sun and Moon on the Earth's crust and core (which is already considered crystalline). If it were possible to rise above this "solar sphere," inter- essant energy effects could be discovered. You could draw a straight line from the center of the galaxy, through the Milky Way, through the sun to the "mallet" of Orion (which falls on one of the corners of the celestial philosopher's stone).

In no corner of the celestial sphere is there more such a cluster of bright stars as around the constellation Orion. According to the precession cycle of 26000 years, the Earth's axis first turns to the center of the galaxy and then moves away from it. Now we are in such a period (dog in the Aztec calendar), where the north pole of the earth is almost as far away from it as possible. This pe- riod began around 1000 AD, when the sunrise at the summer solstice coincided with the orientation ring. In the same period the south pole of the earth is turned as far as possible to the center of the galaxy. The days of the solstice show the extremes of these "energy constructions" when the poles of the earth are turned away or removed from the sun to the maximum. The question I would like to ask is very old: Does this alignment of the poles affect the life of mankind on earth energetically?

There are a number of amazing correspondences between historical events, the precession of the summer solstice on the ecliptic, the position of the Philosopher's Stone on the celestial sphere, and the time periods given in the Aztec stone calendar (usually interpreted as "days"). For example, the Day of the Dog extends from 300 BC (the time of Alexander the Great) to 1000 AD. I suspect that the wave of fear that has arisen in this millennium is based on the residual knowledge of the celestial map that was lost in Europe many centuries, if not thousands, of years ago. The period that we consider the beginning of the dynasties of the Egyptian pharaohs (around 2900 - 3000 BC) marked the end of the Stag Day in the Aztec calendar and the beginning of the Day of the Ka- ninchen. The hordes that, according to Maria Gimbutas and Riana Eisler, began to rob the matriarchal cultures of ancient Europe, began their invasions around 4200 BC at the beginning of the Aztec Day of Death and at the end of the Day of the Serpent.

These events may reflect the mythology of the lost heavenly philosopher's stone or the successive evolutionary stages of the development of consciousness and the potential of human culture, which are geometrically accurate.

Perhaps they can even be predicted. Plato warned us about the time, which is almost opposite to ours, when the north pole of the earth turned as far as possible in the direction of the galactic center. According to the legend, Atlantis died at that time. We will not go into the controversy surrounding this story now, I will just say that according to Plato, this catastrophe was caused by the actions of man. Nowadays, geologists are beginning to scientifically study this period for a completely different reason. They can now pinpoint the time around 10,600 BC when the deep-sea North Atlantic current changed direction "unexpectedly." This current runs south from Greenland and skirts the tip of Africa. It plays a major role in the modern climate, which is rather mild for Western Europe. It forms when dense salt water from the south cools near Greenland and becomes heavy enough to sink to the bottom of the ocean. It was very weak, if not absent, during the last ice age, but probably suddenly resumed around 10,600 BC. - exactly at the end of the Aztec crocodile day and the beginning of the wind day. At the same time, the concentration of greenhouse gases increased. Scientists have noted their accumulation, but do not know exactly whether they caused global warming. A few centuries later (just a few degrees of precession further), the ice of the North Pole began to melt and the level of the world ocean began to rise. The chain of causes that caused these events is still unknown.

I did not give this example to justify the indefatigability of an industrial society. Perhaps, as Plato's Atlanteans, we became greedy and envious, causing a process that leads to the destruction of our species and many others. Today's day of the calendar, as mentioned above, corresponds to the day of the monkey, Orion, a hunter doomed to endless pursuit. It will end around 2300 AD. And the day of the dry herbs will come, perhaps before a global water shortage, which already begins to dry up the earth.

In many versions of the myths the hunter Orion is compared with the cursed hunter. It symbolizes (I quote J. E. Kierlot) "the falling away from the center or the desire to do it - to the edge of an infinitely rotating circle of events ... to senseless worldly vanity". Can one find a more accurate astronomical metaphor of our times? However, the main word is "striving", i.e. the striving to give up the spiritual. Maybe it is the "intelligent cosmic energy" in which we live and which was geometrically communicated thousands of years ago but forgotten by our time?

Questions like these are very old. And the best answers lie - in my- thology. For example, the Oneida Indians of the Iroquois Confederacy have a story about Shagodyov Goa, a creature that lived in the beginning. Being solitary, it considered itself the creator of the diversity of nature. This angered the great Creator, who punished her for her pride by smashing her against the rocks. Her broken jaw and nose found a symbolic counterpart in the ceremonial masks of the Oneida tribe, which commemorated this initial error and also spoke of how the form can be used to be protected from enemies for health and happiness.

According to a West African myth, the creator and chief god from the beginning was Niyankupon. All the sacred legends praised him. The spider Anansi was very jealous that the legends were not about her, but she had a very high opinion of herself. Niyankupon told Anansi that the legends will praise him if he finds and brings a beehive, a python snake and a ti- ger. Anansi completed the task by precisely manipulating the "containers" (forms), and the chief god was greatly surprised at her intellect. Niyankupon ordered that from that day on, all the old and new beings mentioned only Anansi, and he left the earth and returned to his house beyond the sky.

Both Shagodyov Goa and the Anansi spider are typical "geometric spirits", clearly showing that geometry is not God.

Science proves convincingly that material beings only strive for geometric perfection. The earth is not perfectly spherical. Most viruses are almost icosahedral. Nevertheless, material reality can be much better understood if we think of it as geometrically perfect - as something that "always exists but is never attained".

How can we begin to separate excessive human greed, pride, individualism and stupidity from our collective material memory - from the "paradise precession" that evolves over time and creates harmony in our minds? This is where science and religion meet - in relation to the highest enigma, the "ancient future." And if the ideal geometric map somehow reflects the life of the universe and the processes of physical and cultural evolution? What does it mean? Where can such a theory lead? Is it possible to predict the cycles of consciousness? Can we think and plan again in the course of centuries and millennia? I am sure, again, that we should at least ask these questions seriously.

What if the Creator from the beginning envisioned geometry as a natural system of knowledge that humans could use at any time to determine the fate of the Earth as it moves along the rim of the great radiating sea that is now the Milky Way? If we accept only the validity of it, the whole world of time ceases to be chaotic and turns into a sacred laboratory with semi-predictable boundary conditions.

Today, its heritage is unrecognized in the museums, sacred texts and temples, archaeological excavations, and even in what we have long considered simple truths. All this diversity of worldwide creativity is an ancient future that can highlight the philosopher's stone/map and unite it for those people who survive the day.

Appendix 5

Reviews

Below are the texts of some of the most interesting reviews of various works by
Goncharov-Makarov-Morozov.

No. 1

Reply to the article by N. F. Goncharov, V. S. Morozov and V. A. Makarov "Geometric frame of the Earth and related regularities".

The authors of the article conducted interesting research. They recorded numerous facts, events and processes of historical, biological, geographical and geophysical nature and put them on the map of the Earth in the form of dots. It turned out to be a dotted pattern forming a grid of pentagons and triangles. This they called the icosahedron-dodecahedron system and is essentially a type of geometric framework of the Earth. It is emphasized by young geological structures. Individual mineral deposits also fit into it. According to the authors, the points (nodes) of this system are the outputs of the original "energy" axes of the planet, which determine its "energy grid", which caused the occurrence and flow of many geological and geophysical processes on Earth, influencing the geography of our planet, the development of the biosphere, the emergence of focal points of ancient civilizations. That is, the authors give an energetic interpretation to all these events. This is the essence of their original hypothesis, which is the result of a deep and purposeful scientific search.

What is its meaning and value? First of all, attention is drawn to the complexity of research, to the effort to find common patterns in facts, events, and processes that relate to qualitatively different areas of scientific knowledge, and to study the history of human culture, the biosphere, and objects of a geological and geophysical nature. That is, the authors strive to understand some of the higher laws of the universe that are still unknown to us.

In our opinion, the article in principle takes the correct approach of deriving an energetic rationale for the identified patterns in the placement of the objects in question from the positions of the planet's energy framework. We think of it this way: It is possible that the entire group of system nodes considered in the article, or a significant portion of them in the context of the triangular-pentagonal grid, is a projection onto the spatial frame of the Earth's surface, a kind of radially directed mobile wave shield (in the shape of a hedgehog) along which the Earth's mantle is oriented. Deeper parts of the Earth exert a pulsating flow of energy that triggers various geological processes and creates favorable conditions for the formation, development and evolution of the biosphere, for the migration of plants and animals and for the emergence of civilization herds.

The idea of a global influence of radiation emanating from the body of our planet on the biosphere and on man as a factor of great historical importance is consistent with many modern studies of the influence of magnetic, electromagnetic and electrostatic fields on various animals and humans. It corresponds to some extent to the position of researchers dealing with the problem of interaction of energy fields of living organisms and natural inorganic objects, carried out in addition to the known sense organs.

The authors' attitude to the need for a thorough and comprehensive study of the nodes of the system, which in particular are diametrically opposed, should be emphasized.

In our opinion, it would be advisable to carry out a kind of certification, i.e. to give a versatile geological, geophysical, biological and historical charac- teristics of these sites, to classify them, to present the history of development, on the basis of which one can approach the knowledge about the energy functions of our planet. A kind of blinking traffic light system, so to speak.

The hypothesis under consideration is also interesting in that it stimulates new thoughts and ideas and provides incentives for targeted research in the various fields of knowledge discussed in the article. This concerns in particular the study of electrical phenomena in the Earth's crust and natural electrochemical processes that link the planetary grid of faults to the geo- metric framework of the Earth proposed by the authors. It is interesting to compare the position of the sys- tem nodes with the centers of neo-tectonic highs and lows, centers of volcanic and seismic activity. It is necessary to work further on the establishment of planetary patterns in the distribution of mineral deposits associated with the nodes of the system and to consider the movement of continents in the geological past of our Earth.

Due to the success of scientific research from space, there are currently more opportunities to test the hypothesis under consideration. Visual observation by astronauts, cosmic aerial photography, spectroscopy, radiospectroscopy and other research methods provide valuable material for this purpose. It will be important to study the energy pulsations of the Earth, the radiation emanating from the body of our planet, in a wide spectrum of waves from space. Quite objectively, the young authors point out that their views on the dodecahedral framework of the Earth's surface, which they arrived at independently on the basis of versatile scientific research, are in agreement with the views of the ancient Greek philosopher Plato.

This does not diminish the value and originality of their scientific research. This fact, as well as some other facts, testify that we must treat with great attention and respect the material and spiritual culture of our ancestors, our near and distant relatives, who obviously knew much more than we do. They already knew laws of the universe that our contemporaries are only beginning to understand.

The authors have not examined all the quoted facts from different fields of knowledge with the same depth. The idea of the "energy grid" of the planet was put into the most general form. There may be coincidental correspondences of the objects and phenomena they consider with the nodes of their sys- tem. Statistical processing of the material underlying their hypothesis is therefore necessary. They consider the phenomena and processes in the time of human history. And you have to be very careful when extrapolating the revealed patterns into the geological past of our planet, since the continents used to occupy a somewhat different position than at present. Your triangular pentagon mesh is the ideal scheme. It needs to be adjusted more precisely to the actual position of the objects under study. This criticism is in the nature of young authors' wishes, which should be taken into account in further work to confirm and improve the hypothesis. We would like to point out the symmetrical and zonal arrangement of the system nodes with respect to the equator. They are covered by seven latitudes: equatorial, three northern and three southern. The latitudes of the latter are as follows: 12°, 27 - 30°, 51 - 58° N and S. It is planned to increase the zo- nal width from the equator to the north and south. In essence, the extreme northern and southern zones consist of two subzones. This feature is also interesting. Four of the seven zones are located near the four critical parallels of the globe (latitudes 35° and 62° N and S), and another is located on the fifth of them, at the equator.

These parallels mark the most mobile, tectonically weakened zones of the Earth. The formation of the following days is due to the dynamic forces that occur in the planet as a result of its rotation around the axis. The spherical shape of the Earth combined with rotation causes climatic zones and the associated atmospheric circulation, ocean currents and their global turbulence. All of this is known to affect the geographic environment and thus the biosphere. In this context, we believe that we should pay special attention to the study of the dynamics of a rotating globe of the Earth, which determines the course of many phenomena not only on the surface of the Earth, but also in its depths, where processes of differentiation and transformation of matter take place, where energy is generated. The background and the "energy grid" of our planet as well as the character and rhythm of terrestrial emissions, which are closely connected with cosmic processes and the activity of the sun, are determined.

The hypothesis of the young authors corresponds to the developmental trends of modern science. It has an important methodological significance, since it deepens our ideas about the unity and interconnectedness of the organic and non-organic world on Earth.

The article by N. F. Goncharov, V. S. Morozov and V .A. Makarov, "The geometrical framework of the Earth and related laws", is recommended for publication in the press.

Professor of Tomsk Polytechnic Institute Dr.
geol.-min. A. G. Bakirov, 1974

No. 2

Response to the article N. Goncharov, V. Morozov, V. Makarov: "The Earth - a Large Crystal?"

At the present stage of development of geology, individual zo- nas and nodes of our planet, characterized by a long-term manifestation of geochemical and thermal activity, increasingly attract the attention of researchers. This phenomenon in itself testifies to the heterogeneity of the Earth's structure and makes them search for its causes.

A special interest in this problem also results from the fact that in many cases the order is given to establish the connection of large mineral deposits with these active zones.

On the other hand, some investigators of this problem have succeeded in establishing the presence of symmetry in the arrangement of long-lived linear systems of faults and their intersections, most notably in September of this year. At the Bucharest International Volcanological Symposium, Czechoslovak scientist J. Kutin reported on the planetary network of faults and its significance for predicting ore deposits. According to Kutin's ideas, the nodes of this network are located at equal distances from each other.

The authors of the present article are well attuned to the mentioned problems and explain the reasons for the occurrence of symmetrically localized anomalies. Considering at the same time that the idea that the Earth was a giant crystal at an early stage of its formation came to one of the leading Soviet crystallographers of his time, Prof. I. Shafranovski, it becomes clear that the authors' hypothesis is justified.

Based on the amount of evidence the authors provided to support their hypothesis, the most interesting to me as a geologist are the correspondences of the edges of the polygons they constructed with mid-ocean ridges, the position of magnetic anomalies in the centers of the dodecahedron edges, and the approximate correspondence of some nodes with coarse ore deposits (e.g., Cerro de Pasco in South America) as geometric shapes.

They correspond to the modern concepts of most geologists and metallogenists as well as to the statements of the authors about discontinuity and periodicity in the active manifestation of the "system nodes". Indeed, it can be assumed that periods of so-called "tectono-magmatic activation" have occurred repeatedly (and at regular intervals) in the evolutionary history of the Earth, during which particularly weakened areas in the corpus of our planet became animated. Moreover, it is reasonable to conclude that in the (according to the terminology of the authors) "extreme" areas, where the background activity (geochemical, thermal, etc.) has increased, directly or indirectly the most important processes take place on the Earth's surface, including biologic ones.

In conclusion, we can say that the authors have rightly identified some of the key problems of modern geoscience and try to give them a specific interpretation by summarizing numerous facts from different fields of knowledge. It should be noted, however, that not all the arguments put forward by the authors are equally convincing and that, for example, the reference to the Loch Ness monster should be removed from the article so as not to expose other scientific arguments to "manslaughter". The authors of the article do not themselves believe that their hypothesis has been fully proven, and they seek to publish it in discussi- on form.

I think the article by N. Goncharov et al. deserves publication as one of the possible interpretations of the facts collected in recent years that point to the (symmetrically localized?) presence of anomalies in the structure of our planet.

Dr. geol.-min. M. Favorskaya
1.10.1973

No. 3

A review of the work of N. F. Goncharov, V. A. Makarov, V. S. Morozov "The icosadro-dodecahedral structure of the Earth as a factor influencing the biosphere in general and man in particular".

The work is devoted to the explanation of the anomalies in various processes occurring in the Earth's envelope. The authors proposed an elegant hypothesis about the crystalline inner core of the Earth associated with the ascending and descending mass flows by which the structure of the core is determined, which occur on the Earth's surface as anomalies of various orders. The hypothesis explains geological, tectonic, and magnetic anomalies, but does not pretend to be a global explanation (e.g., the bends of the ma- net field are associated with regions of downward matter currents). The influence of the system mediated by various factors also manifests itself in the biosphere in the formation of extreme speciation points associated with regions of ascending and descending currents (points of "optimal development" are as- sociated with regions of ascending currents).

According to the authors, the crystal structure of the inner core has changed in the course of the Earth's evolution, and the points of extreme evolution have also changed. The authors also believe that the system affects the human society (to the least extent, since in each subsequent higher level of organization the effects of the system are less pronounced).

The present work is of undoubted scientific interest (and of further developmental and practical importance) and should be published in as complete a form as possible so that it can be discussed in detail by experts in various fields of science.

Chairman of the Department of Geology in the Department of Civil Defense of the Ukrainian SSR at the Academy of Sciences of the Ukrainian SSR, Chief Geologist of KTP for Oil and Gas Production in Chernigov, cand. geol.-min. G. I. Vakarchuk,
20.11.1979

No. 4

Feedback on the work of N. F. Goncharov, V. A. Makarov, V. S. Morozov:

"The energy framework of the Earth and its manifestations in the geological structure and geophysical areas of the East of the USSR. and the northern part of the Pacific Ocean".

In this work, we believe that the authors have actually succeeded in finding a previously unknown natural pattern: the ordering of the Earth's structures and physical fields in the form of the icosahedron-dodecahedron and its subsystems. The mechanism of its formation remains problematic, but the phenomenon itself deserves the greatest attention from geologists and geophysi- cists. The energy framework of the Earth revealed by the authors links various geological and geophysical processes on a unified basis and is very valuable precisely because of this complexity. The best confirmation is that the icosahedron-dodecahedron model is found in the Earth's magnetic field, since the centers of all global magnetic anomalies are located at the nodes of the model. Moreover, the areas of magnetic ano- malies of the Siberian and Aleutian worlds are approximately the same size as the North Asian and Aleutian triangles of their corresponding model and the contours of the same follow the contours of these triangles. As a result, the model can provide a fundamentally new approach to the study of the Earth's ma- gnet field.

The models satisfactorily fit the world system of mid-ocean ridges, many cross-sectional zones of faults in the Earth's crust, deep faults of the planets, and a number of other structures. For example, the connection of the edges of a dodecahedron is uniquely defined by the Irkutsk Basin. It is interesting that we have identified a zone of faults on the edge of the dodecahedron from Baikal to Okhotsk based on satellite imagery.

A comparison of the model with known and proposed ore zones is promising, especially since some of its nodes correspond to the largest ore zones: in the extreme south of Africa, in Gabon, in Peru (Cerro de Pasco) and others. Some encouraging results are already available for geophysical structures and metallogenic comparisons. By the way, such cellularity has been noted by many researchers in the USSR and abroad, including us. Such similar results of many independent researchers indicate that this geo- metric order of structures does exist. In the Ukrainian SSSR V. V. Nemey successfully uses his lattice frameworks for the prediction of minerals.

In general, the work of the authors is very promising, deserves approbation and full support. It is necessary to expand and deepen the research, involving eminent experts in tectonics, geophysics, metallurgy, etc.

The authors should be given the opportunity to present all results of their work in a monograph. It is necessary that they publish their results regularly in geological and geophysical journals to familiarize the experts with these new developments.

If the authors managed to justify the energy map with the geological and geo-physical data of a particular region of the USSR, this could be the subject of a dissertation.

Based on the results of the tectonic analysis, we recommend sending a report to the Tectonics Division of the upcoming 27th International Geological Congress.

Head of Laboratory of the Dept. of Tectonics of Oil and Gas Areas ITIG DVND of the Academy of Sciences in the USSR

Cand. geo.-min. V. V. Kulyndyshev

No. 5

Feedback on the content of the paper by N. F. Goncharov, V. A. Makarov, V. S. Moro- zov: "On the impact of the Earth's icosahedral-dodecahedral energy framework on the biological resources of the world ocean."

The hypothesis of the symmetrical structure of the Earth, which influences the development of natural processes on the planet, is undoubtedly of interest and deserves the greatest attention. The authors' research topic, together with other research areas, can provide science with new knowledge that will subsequently influence the development of knowledge about nature. For the study of the biological resources of the world ocean, the results are of particular interest, as they indicate an increased biotropic field in the regions of the edges and nodes of the Earth's framework.

Research in this direction will not only help to clarify the distribution patterns of fishing areas, but also to search for new promising fishing grounds. The study of the dynamics and functioning of the elements of the Earth's energy framework will make it possible to understand more precisely the interaction processes of different Earth shells and ultimately their temporal organization.

The authors should publish more publications on their research topic. The materials they collect can serve as a basis for writing theses.

I think it would be appropriate to set up a working group to broaden and deepen research in the areas mentioned.

Deputy Director of the Kamchatka Scientific Division of the Pacific
Fisheries and Oceanography Research Institute,
cand. geograph. I. V. Davidov

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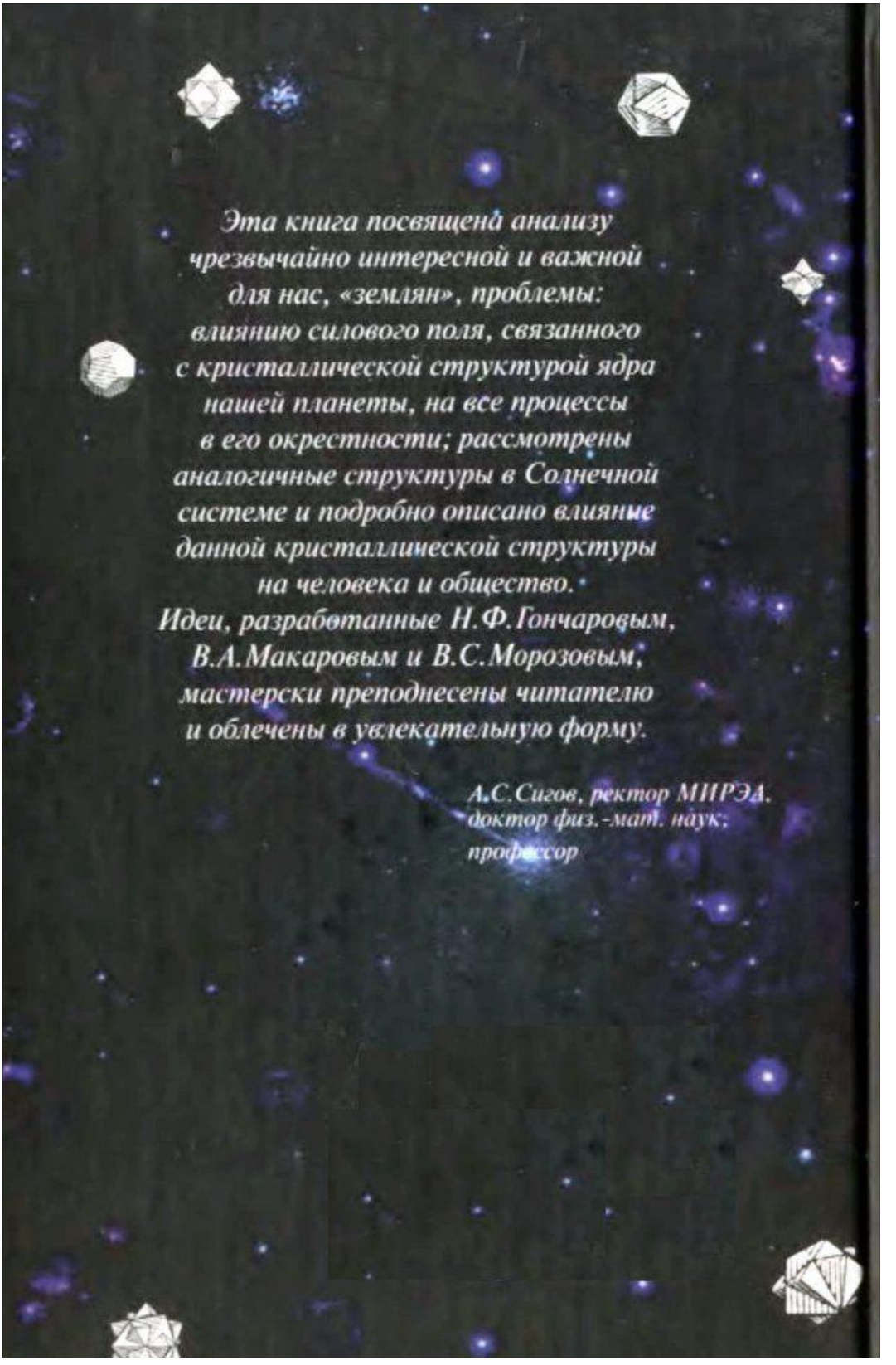

Эта книга посвящена анализу чрезвычайно интересной и важной для нас, «землян», проблемы: влиянию силового поля, связанного с кристаллической структурой ядра нашей планеты, на все процессы в его окрестности; рассмотрены аналогичные структуры в Солнечной системе и подробно описано влияние данной кристаллической структуры на человека и общество. Идеи, разработанные Н.Ф.Гончаровым, В.А.Макаровым и В.С.Морозовым, мастерски преподнесены читателю и облечены в увлекательную форму.

А.С.Сигов, ректор МИРЭА, доктор физ.-мат. наук, профессор